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Michael's
SEED ANNUAL
GARDEN
FIELD AND GRASS SEED
SEEDS
Season

1914

The
Michael Seed Store
316 PEARL STREET
SIOUX CITY, IOWA.



INDEX



The Home of Good Seeds

	Page
Autumn Bulbs	15
BULBS AND ROOTS	15 and 16
Chickfoods	31
CLOVER SEED	19
Dwarf Essex Rape	22
EVERGREEN TREES	29
Fertilizers	30
Field Seeds	22
FLOWER SEEDS	13 to 15
Flowering Shrubs	27
Flowering Plants	17
GARDEN SEEDS	1 to 12
GRASS SEEDS	19 to 22
Hardy Ferns	15
Herbs	12
Insecticides	30
Iris Lily	29
Lillies	18
Mangel Wurzel	3
Millet Seed	22
Miscellaneous Vegetable Seed	12
Mushroom Spawn	8
Nasturtium	15
NURSERY STOCK	24 to 28
Onion Sets	9
Peonies	18
Popcorn	23
Planet Jr. Planters	32
Roses	27
Seedlings	29
SEED CORN	23
Seed Potatoes	22
Shade Trees	28
Strawberries, Plants	26
Sugar Cane	22
Sweet Peas	14
Vegetable Plants	17
Vegetable Roots	17

It is with pleasure that we present you with a copy of our new catalog of **seeds, bulbs, plants and nursery stock** and call your special attention to our new concrete building, **the home of good seeds**. We now have one of the best equipped **seed stores** to be found in all America. We keep on hand in season all kinds of seeds adapted to our country and climate. Our cellar is complete in all its appointments for handling nursery stock, plants, bulbs and keeping them in condition from time they are dug until planted where they are to grow.

We want to say that it will pay you, and pay you well, to buy your seeds of any kind at our **Seed Store**. You will find with us new stocks and a full line of everything in Seeds, and greatly, too, to your advantage in both price and quality. Our **Garden Seeds** are the very best obtainable, planted, grown and saved by special growers of the different kinds of seed, and while we exercise the greatest care to have all seeds pure and reliable, we give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any **Seeds, Bulbs, Plants or Nursery Stock** we send out, and we will not be in any way responsible for the crop. **The Field and Grass Seeds** we handle are clean and pure, free from foul and obnoxious weed seeds. We invite every farmer to come and see our stocks before sending away or buying their seeds, as we feel satisfied that when you see our stock you will do business with us.

Thanking you for past favors and awaiting your further orders,

The Michael Seed Store
J. S. MICHAEL, Manager
316 PEARL ST., SIOUX CITY, IOWA
AUTO PHONE 2142—OLD PHONE 935-M

The Michael Seed Store

J. S. MICHAEL, Manager

316 Pearl Street,

Sioux City, Iowa

Auto Phone 2142—Old Phone 935-M

PRICES AND DESCRIPTION

Vegetable Seeds

Seeds are Different from other merchandise. The real value of seeds can only be known after months of labor. Buy your seeds of a reliable **Seed Store** with a reputation back of it. Seed of real merit must be grown and sold by practical, trained **Seedsmen**, with a **reputation** made, and to be maintained.

BEANS, PEAS AND SWEET CORN come first—other **SEEDS** in alphabetical order.

NOTICE—Prices quoted are f. o. b. Sioux City, Ia. If ordered sent by mail, add 10c per pint, 15c per quart, or 8c per pound to catalogue prices.

Beans

Beans are very sensitive to both cold and wet. It would be useless to plant them until the ground is warm. They can be safely planted first when the apple is in bloom. For garden culture make your rows about 18 inches apart, and plant the beans so that the vines may grow out four inches apart in the rows. Beans mature in about 30 to 50 days after germination. One quart plants about 100 foot rows. Some sorts are a failure this season. We quote such leading kinds as are best suited for this section's soil.



Golden Wax Bean.

Golden Wax. The old standard wax sort. Productive and early with yellow semi-round pods of good quality. Improved Golden Wax also at same prices. **Price, pint 15c, quart 25c, peck \$1.75.**

Prolific Black Wax. The old standard Black Wax Bush Bean. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor when cooked. **Price, pint 15c, quart 25c, peck \$1.75.**

Royal Purple Wax. Early, prolific, stringless and very brittle. Pod round and very tender. One of the best improved sorts. **Price, per pint 15c, quart 25c, peck \$1.75.**

Wardwell's Kidney Wax. Very productive, pods long, broad, thick, flat, and of a delicate waxy yellow, of excellent quality. **Price, pint 25c, quart 35c, peck \$2.50.**

Davis White Wax. A new white, rustless, productive, wax-podded bean; pods flat, very long, white waxy color, and handsome; seeds clear white. **Price, pint 5c, quart 25c, peck \$1.75.**

Stringless Green Pod. The earliest and hardest of all green-podded sorts; large, handsome pods, some of which measure six inches in length. Very productive, bearing profusely the beautiful green pods, perfectly round, straight, broad, tender, brittle, fleshy and entirely stringless. **Price, pint 15c, quart 25c, peck \$1.75.**

Extra Early Round Pod Red Valentine. For Snaps there is nothing superior to this dwarf green podded sort, both for the home and market garden. Many prefer it to the wax varieties. Pods medium length, curved cylindrical, with crease in back, very fleshy, crisp and tender. **Price, pint 15c, quart 25c, peck \$1.75, bushel, \$5.50.**

Bush Lima (Burpee's). A true bush form of the large White Lima, a circular bush 15 to 20 inches high, self-supported by its own thick stems. Unsurpassed in productiveness and quality of its large, handsome pods. **Price, pint 20c, quart 35c, peck \$2.00.**

Large White Lima. Vine, tall growing, requires poles or support, pods borne in clusters, long, broad, very thin, dark green; seed very large oval, flat, greenish white. **Price, per ½ pint 15c, pint 25c, quart 35c.**

Kentucky Wonder, or Old Homestead. Pole variety, long flat green pods, seven to nine inches in length, fleshy and stringless. Heavy yielder. Excellent for snap beans. **Price, ½ pint 10c, pint 15c, quart 30c.**

Navy Bean—White Wonder. The finest white field bean, a heavy yielder in all sections of the country. **Price, quart 15c, Bu. Market Price.**

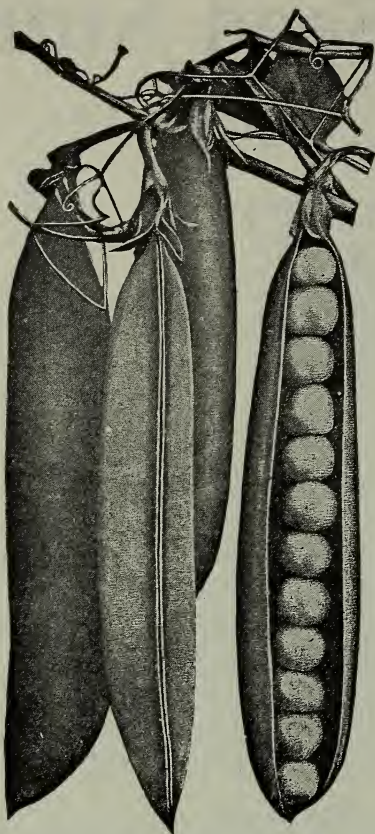
Peas

Peas are among the earliest seeds that can be planted at the close of winter. The **round, smooth sorts** are the **hardiest** and are often planted without danger before the frost is out of the ground. The wrinkled sorts are not so hardy and can not with safety be planted quite so early; but plant all kinds as early as possible and plant on a warm, quick, rich soil. Peas will mature **earlier** if planted only **an inch deep**. Where earliness is most important they should not be planted deeper, but **larger pods** and more of them may be had by **deeper planting**. Dwarf varieties are planted in rows 15 inches to 2 feet apart. Two quarts of seeds sow a hundred yards of rows.

Michael's Early June. The earliest of all peas. Similar to Alaska. Quality good. **Price, Pint 15c, quart 25c, peck \$1.50.**

Alaska or Earliest of All. This is without exception the earliest variety of peas grown. They grow about knee high and set very full of dark green pods, which are almost all ready to pick at one picking. Seed blue when ripe. Will stand planting in the ground before any other sort. **Price, per pint 15c, quart 25c, peck \$1.50, bushel \$6.00.**

Ferry's First and Best. The earliest and most even, extra early peas in existence, maturing well together. Vine vigorous and hardy, two and one-half feet high, smooth peas of fair quality. The seed is cream colored. **Price, pint 15c, quart 25c, peck \$1.50, bushel \$5.00.**



The Harvester.

Harvester. This is a new variety of unusual excellence. The plants are sturdy and of strong vitality, resisting sunburn and other inclement weather conditions better than any other pea known. Average height of vine about 18 inches. Pods run from 3 to 4½ inches in length, containing from 6 to 10 large peas each. Pods and vines dark green color. This pea is the largest wrinkled kind known. **Price, pint 25c, quart 45c.**

Little Gem. Probably the best known and most widely grown second early. It comes in following the first earlies, grows about 15 to 18 inches high and bears heavily of large plump pods. The peas are wrinkled and very sweet. **Price, per ½ pint 10c, pint 15c, quart 25c, peck \$1.75.**

Nott's Excelsior. A very sweet, very dwarf, early pea, small bush, about 15 inches high. Bears very heavily in a favorable season, but subject to weather conditions more than the smooth peas. Very high quality. **Price, ½ pint 10c, pint 20c, quart 35c, peck \$2.00.**

American Wonder. Somewhat similar to Nott's Excelsior, a very early wrinkled pea, very dwarf, growing about 8 inches high. Pods quite large, but not many to a vine. **Price, ½ pint 10c, pint 20c, quart 35c, peck \$2.00.**

Advancer. Similar to Gem, but still larger and later. It is generally classed as a second early, but is more nearly a main crop variety. Has the same quality a little later, grows a little taller and stays in bearing longer, good yielder and good seller. **Price, ½ pint 10c, pint 15c, quart 35c, peck \$1.90.**

Telephone. The Telephone is medium early in season, bears a long time; the pods are always of good size, well filled and the quality is of the very best. **Price, ½ pint 10c, pint 20c, quart 35c, peck \$2.00.**

Champion of England. The best late season tall pea. One of the oldest varieties of peas and unsurpassed in quality. There is no sweeter pea than the Champion of England. The vines grow almost 5 feet high, are very vigorous and produce a heavy crop of good sized pods filled from end to end with luscious peas. **Price, ½ pint 10c, pint 15c, quart 25c, peck \$1.60.**

Black Eye Marrowfat (Late). A great yielder of ordinary quality peas. **Price, pint 10c, quart 20c, peck \$1.00, bushel \$3.50.**

White Marrowfat. Similar to Black Eye. Popular because of its heavy yield. **Price, pint 10c, quart 20c, peck \$1.00, bushel \$3.50.**

Edible Pod Pea. This class of peas is but little known. They have a sweet, brittle succulent pod and can be used same as snap beans, cooking both pod and pea together. **Price, ½ pint 10c, pint 20c, quart 35c.**

Canada Field Pea. A splendid crop to sow with oats or barley for green feed. Will produce a crop and enrich the soil at the same time. Succeeds well almost anywhere and is very prolific. The dry peas are of good size and excellent for cooking. **Price, pint 10c, quart 15c, peck 75c.**

Sweet Corn

DON'T PLANT SWEET CORN DEEP— Sweet Corn should not be planted over one inch deep; most people plant two or three inches deep—most sure to rot. Also do not plant too early. Not as early as field corn.



Early Evergreen Sweet Corn.

Extra Early Cory. Standard early sort; fair quality and very early. **Price, pint 10c, quart 15c, peck \$1.00, bushel \$3.50.**

White Mexican. A new variety of recent introduction. Originated at Sioux City. It is a bud propagation of the old Black Mexican. Extra early, pure ivory white and very sweet. Early as any of the extra earlies and far sweeter than any of them. **Price, pint 15c, quart 25c, peck \$1.00, bushel \$3.50.**

Peep o' Day. The two points of this remarkably sweet corn to which we wish to call most particular attention, are its extraordinary earliness and unparalleled sweetness; surpassing in these particulars any other variety early or late. **Price, ½ pint 10c, pint 15c, quart 25c, peck \$1.25.**

Golden Bantam. A new variety of sweet corn which many people consider the richest

and sweetest of all corns. It may be planted thickly and as late as July 17th. It is a medium early variety and yields very heavily. **Price, pint 15c, quart 25c, peck \$1.50, bushel \$5.00.**

Minnesota Early. The best and most popular of the older varieties. The stalks are short and bear two long ears each, having eight rows of very sweet and tender kernels. **Price, pint 10c, quart 15c, peck 75c, bushel \$2.50.**

Crosby's Early. A most excellent second early variety of fine quality. Nice ears, very white, sweet and tender. This is a sort largely grown for canning and has a great reputation for quality. **Price, pint 10c, quart 15c, peck \$1.00, bushel \$3.75.**

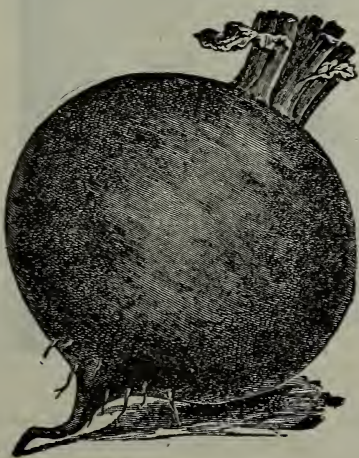
Country Gentleman. This variety frequently has four good sized ears, while the average is three to a stalk. The cob is very small, giving good kernels of pearly whiteness. The greatest merit of the "Country Gentleman" corn is its delicious quality; it is without doubt the sweetest and most tender of all sweet corn. **Price, ½ pint 10c, pint 15c, quart 20c, peck \$1.25, bushel \$4.00.**

Stovell's Evergreen. The standard big late corn. Good big ears, sweet and solid, and heavy yielder. Used extensively by the canning factories and for drying. Stays green and tender for a long time. Select hand picked stock. **Price, pint 10c, quart 15c, peck \$1.00, bushel \$3.00.**

Sweet Corn for Fodder. Good vitality; per bushel, \$2.50.

Table Beets

For earliest use and market, sow seed of any round sort under glass, in February or March, and transplant to open ground in March or April. Seed for main crop may be sown as soon as ground can be gotten in proper condition. For table beets sow in drills 18 inches apart, and thin to stand 3 to 4 inches apart in the rows. Use 1 ounce to 200 feet of drill and cover lightly; 5 to 6 lbs. per acre. **Round and turnip shaped beets** are best for spring and summer; the



Detroit Dark Red Beet.
Superior to all others.

half long kinds for winter. For **sugar beets and mangels** make the rows 2½ to 3 feet apart, and sow 6 to 8 pounds per acre. A light, loamy soil is best for all beets. Beet tops are much used for greens. The **Swiss Chard** is one of the best for this use.

Detroit Dark Red. A grand beet for market bunching; tops exceptionally small and upright; roots are **perfect turnip shape with small tap root.** Color dark blood red; quality of the very best, sweet, tender and lasting. One of the best for the market gardener and the home gardener. **Price, ounce 10c, ¼ lb. 25c, ½ lb. 40c, pound 75c.**

Extra Early Egyptian. An early variety, which is suitable for forcing and growing in the open garden. The tops are small and the beets are rounded on top, but flat at bottom end. The color of flesh is dark and light red and the beets are tender. **Price, ounce 10c, ¼ lb. 25c, ½ lb. 40c, pound 65c.**

Crosby's Egyptian. A variety of beet which has nearly supplanted the original Egyptian, and is more desirable because of its shape and fine quality. It is extremely early, and may be grown either out of doors or under glass. The rich vermilion color makes it a very attractive sort. **Price, ounce 10c, ¼ pound 25c, ½ pound 40c, pound 65c.**

Early Blood Turnip. A fine selection of Blood Turnip Beet, early and good for summer and autumn use. **Price, ounce 10c, ¼ pound 25c, ½ pound 40c, pound 60c.**

Early Eclipse. Perfectly smooth and round; skin and flesh intense red. This variety is extremely early. **Price, ounce 10c, ¼ pound 25c, ½ pound 40c, pound 65c.**

Edmund's Blood Turnip. A good variety to follow the extra early sorts, and one of the best for winter use, as the roots keep remarkably well. The tops are not large. Skin and flesh are both dark red and the quality is good. **Price, ounce 10c, ¼ pound 25c, ½ pound 40c, pound 60c.**

Long Smooth Dark Blood. This variety has long slender roots. The beets are seldom more than 2 inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality excellent, sweet and tender. **Price, ounce 10c, 2 ounces 15c, ½ pound 30c, pound 50c.**

Half Long Blood. One of the best for winter use. Roots only half as long as the Long Blood, but weigh as much on account of their thickness. Always smooth, and their rich, dark red flesh is very sweet, crisp and tender, never becoming woody, even in exposed portions. **Price, ounce 10c, 2 ounces 15c, ½ pound 30c, pound 50c.**

Swiss Chard, or Spinach Beet. The leaves of Swiss Chard are used as greens, cooked in same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. **Price, ounce 10c, 2 ounces 15c, ½ pound 40c, pound 70c.**

Mangel Wurzel

Danish Sludstrup Mangel. Sludstrup is considered the best of all mangels, having been awarded first class certificates. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled. **Price, ½ pound 25c, pound 40c, 5 pounds \$1.60.**

Golden Tankard. Best for dairy farming. Considered indispensable among English dairy farmers; they are able to obtain a higher price for milk when feeding cows on Golden Tankard. It is of a rich deep yellow throughout. Early, hardy and a heavy cropper. **Price, ounce 5c, pound 50c, 5 pounds \$2.00.**



**Half Sugar Mangel 1
Wurzel**
The Best for Stock
Feeding

Giant Feeding Beet

Giant Feeding Sugar Beet, or Half Sugar Mangel. A strain of beets very desirable for stock feeding, affording not only a very large crop much easier to harvest than other sorts, but much richer in sugar and other nutritive elements growing out of the ground. Can be harvested easily. Price, pound 40c, 5 pounds \$1.75.

Cauliflower

One ounce of seed will produce about 3,000 plants.

Henderson's Early Snowball. Esteemed for its earliness and heading qualities, producing large, solid, pure white heads; dwarf in habit and as early as any; one of the best sorts for forcing. Price, $\frac{1}{4}$ ounce 75c, $\frac{1}{2}$ ounce \$1.25, ounce \$2.00.

Dry Weather Snowball. Same as early Snowball; pure white and fine quality, but 2 weeks later. Plants strong and sturdy, resisting dry weather better than any other sort. Price, pkt., 10c; $\frac{1}{4}$ oz., 75c; oz., \$2.50.

Autumn Giant. One of the finest late varieties, of robust habit; heads large, compact, and thoroughly protected by the leaves. Price, $\frac{1}{4}$ ounce 40c, $\frac{1}{2}$ ounce 75c, ounce \$1.25.

Cabbage

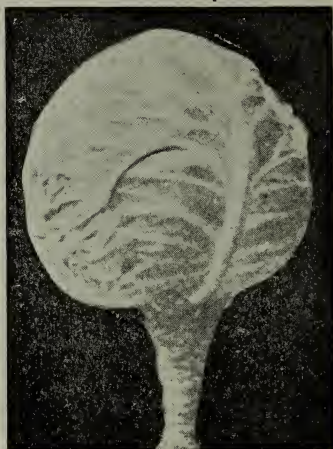
Culture—The Cabbage is a great feeder and well repays heavy manuring and high culture. It succeeds best on well drained soil. Early cabbage may be started in early spring in a hotbed. For main crop, summer and autumn cabbage, the seed should be sown in a rich bed in the open air in May or June. Sow shallow; 1 oz. of seed for 4,000 plants; 3 to 4 oz. for an acre. Set the plants 2 to 3 feet apart each way. Give frequent cultivation.

Early Spring Cabbage. The earliest flat head. As early as Jersey Wakefield. Yields one-third more than the early pointed heads. Solid, uniform and finely grained heads. Price, $\frac{1}{2}$ ounce 15c, ounce 25c, $\frac{1}{4}$ pound 60c, pound \$2.25.

Early Jersey Wakefield. Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads hard and solid, and have few outside leaves. Our seed is extra select highest quality. American grown. Price, $\frac{1}{2}$ ounce 15c, ounce 25c, $\frac{1}{4}$ pound 60c, pound \$2.25.

Winningsstadt. Cone-shaped summer sort; a sure header and a good keeper. Price, $\frac{1}{2}$ ounce 10c, ounce 15c, $\frac{1}{4}$ pound 50c, pound \$1.50.

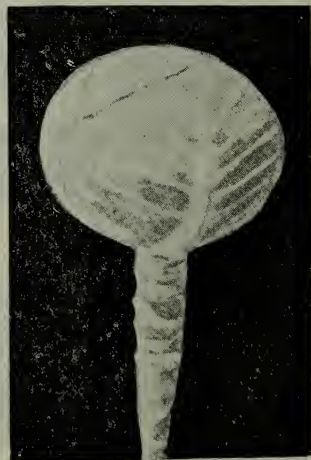
Danish Summer Ballhead. The Danish Summer Ballhead Cabbage is taking the place among the early varieties that the Danish Ballhead holds among the later sorts. It is early, extremely hard, long-keeping and of superb quality; a sure header. It resem-



Early Summer Ballhead.
The Earliest Hard Head Cabbage.

bles the Winter Ballhead, excepting that it is smaller and slightly flat on top. Price, $\frac{1}{2}$ ounce 20c, ounce 35c, $\frac{1}{4}$ pound \$1.00, pound \$3.50.

Danish Ballhead. Michael's Select Stock. The most popular of all late varieties for winter use. Genuine seed grown on Amagar Island, Denmark. Because of its "great solidity" of head, and its unequaled keeping and



Danish Ballhead.

The Highest Bred Cabbage Known.

shipping qualities, Danish Ballhead has supplanted nearly all other varieties for winter use. The Ballhead we offer is the tallest-stemmed strain. The heads are of excellent market size. They are very hard, almost round, fine grained, and will weigh one-fourth more than other varieties of equal size. There is no higher bred cabbage seed than the strain we offer. Price, $\frac{1}{2}$ ounce 20c, ounce 35c, $\frac{1}{4}$ pound 75c, pound \$2.50.

All Head Early. All Head Early is of special value because of close adherence to the type in habit of growth and the shape and quality of the head. Plant compact, with few outer leaves. Head large, very solid, flat but very deep and uniform in size and shape. Quality excellent. Well adapted for kraut. By planting late it can be used also as a winter cabbage. Price, $\frac{1}{2}$ ounce 10c, ounce 20c, $\frac{1}{4}$ pound 60c, pound \$1.75.

Early Flat Dutch Cabbage. A valuable second early sort, with good size, solid heads. Sell well and are good keepers. Price, $\frac{1}{2}$ ounce 10c, ounce 20c, $\frac{1}{4}$ pound 60c, pound \$1.75.

Henderson's Early Summer. An excellent second early cabbage. The head is of medium size, round, somewhat flattened and keeps longer without bursting than most of the early sorts. Price, $\frac{1}{2}$ ounce 10c, ounce 20c, $\frac{1}{4}$ pound 60c, pound \$1.75.

Henderson's Succession. An excellent variety of large flat head maturing in midsummer. It can be brought to perfection in the hottest weather or may be used as an autumn or winter crop. Price, $\frac{1}{2}$ ounce 10c, ounce 20c, $\frac{1}{4}$ pound 50c, pound \$1.75.

Premium Late Flat Dutch. This old and well-known variety is still the standard winter kind. Heads large, solid and first-class keeper. Price, $\frac{1}{2}$ ounce 10c, ounce 15c, $\frac{1}{4}$ pound 50c, pound \$1.50.

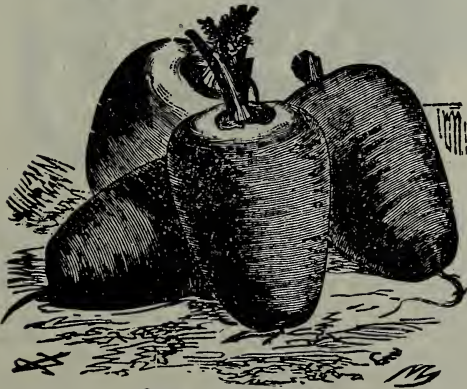
Late Drumhead. A very deep, solid, sure heading variety which in rich soil will grow to a very large size; solid and of excellent flavor. Price, $\frac{1}{2}$ ounce 10c, ounce 15c, $\frac{1}{4}$ pound 50c, pound \$1.75.

Mammoth Rock Red. The best large red cabbage. A sure head of good red color to the center. Price, $\frac{1}{2}$ ounce 10c, ounce 15c, $\frac{1}{4}$ pound 50c.

For cabbage plants see page 17.

Carrots

Carrots require a deep, well worked soil. Plant in rows 15 inches apart for table sorts; cover 1 inch deep. One ounce plants 50 feet. Carrots are excellent for stock, especially for horses. Sow any time before July 1st in rows 24 inches apart. Thin to 6 inches in the row; two pounds of seeds to the acre. Store in winter the same as turnips. For feeding stock grow the **White** or **Yellow Belgian**, which yields big crops.



Oxheart Carrots.

Earliest Short Horn (French Forcing). This variety is small, reddish-orange, of globular shape and excellent flavor. Price, ounce 10c, 3 ounces 25c, $\frac{1}{2}$ pound 40c, pound 75c.

Danvers Half Long. A popular standard variety of rich, dark orange color. Very smooth and handsome. In form half-way between Oxheart and the Long Orange, and

wonderfully productive. Under special cultivation it has yielded from 20 to 25 tons per acre. Price, 1 ounce 10c, 3 ounces 25c, $\frac{1}{2}$ pound 40c, pound 75c.

Oxheart or Guerande. We do not hesitate to call this the most valuable variety in existence. It is intermediate between the Half Long and Horn varieties, attaining a diameter of 3 to 4 inches at the neck, of beautiful shape and rich orange color. It is excellent for hogs and other live stock and has yielded 1,200 bushels per acre. Price, ounce, 10c, 3 ounces 25c, $\frac{1}{2}$ pound 40c, pound 75c.

Chantenay Half-Long. Resembling the Danvers, with larger shoulder. Medium early and heavy cropper. Price, ounce 10c, 3 ounces 25c, $\frac{1}{2}$ pound 40c, pound 75c.

Improved Long Orange. A well-known sort, roots long, thickset near the crown, tapering regularly to a point, color deep orange. Price, ounce 10c, 3 ounces 25c, $\frac{1}{2}$ pound 35c, pound 60c.

Large White Belgian, or Yellow Belgian. Used for feeding cattle; grows large and is very productive. Price, ounce 5c, $\frac{1}{2}$ pound 35c, pound 50c, 5 pounds \$2.25.

Celery

One ounce will produce 5,000 plants.

Celery. Celery seed is slow to germinate and ample time must be given. Sow thinly and cover lightly. Keep constantly moist. Count on about 4,000 plants per ounce of seed. When the seedling plants are 3 inches high they should be clipped at the top. Favor stock growth or else transplanted.

White Plume Celery. The earliest celery. Easiest to grow, as it blanches without even earthing up. Our extra selected and perfected market garden strain is entirely free from green celery found in most other strains of this important sort. Price, $\frac{1}{2}$ ounce 10c, ounce 15c, $\frac{1}{4}$ pound 50c, pound \$1.75.



White Plume Celery.

Golden Self-Blanching. The leading early variety. Stalks are broader and heavier than those of White Plume, and superior in quality, while it is only a little later. Price, $\frac{1}{2}$ ounce 20c, ounce 35c, $\frac{1}{2}$ pound \$1.75, pound \$3.00.

Giant Pascal. A superior keeping sort. The stalks are very large, solid, crisp and of rich nutty flavor; it blanches very easily and retains its freshness a long time. Price, $\frac{1}{2}$ ounce 10c, ounce 15c, $\frac{1}{2}$ pound 75c.



The Davis Perfect Cucumber.

An excellent new cucumber for both outdoor use and forcing. It is a most carefully selected strain of the White Spine type. It is slim, slightly pointed, a dark glossy green color, very tender, brittle and of fine flavor, vigorous grower, withstanding blight and disease better than other sorts. **Ounce 10c, 3 ounces 25c, pound 75c.**

Improved Early White Spine (Bennett's). An excellent variety, which produces an early crop of cucumbers. The fruits are straight, light green, with white spines. **Price, packet 5c, ounce 10c, 3 ounces 25c, pound 70c.**

Early Cluster. Vine vigorous, producing the bulk of the crop near the root and in clusters. Fruit short, with uniformly thick end, dark green, but paler at blossom end. A hardy and very productive sort. **Price, ounce 10c, 3 ounces 25c, pound 75c.**

Early Frame Short Green. This variety is an excellent sort, both for table use and for pickling. Plants very vigorous, fruit straight, a little smaller at the ends, bright green, lighter at the blossom end. Comes into condition for use a little later than the Early Cluster. **Price, ounce 10c, 3 ounces 25c, pound 75c.**

Boston Pickling. A distinct and very productive variety extensively grown for pickles. The fruits are of medium size, very smooth, symmetrical and bright green. **Price, ounce 10c, 3 ounces 25c, pound 75c.**

Improved Long Green (Jersey Pickle). Fruits are long, firm and crisp. The small fruits are used for pickles, and larger ones make excellent for slicing. The vines make a strong growth and are very productive. **Price, ounce 10c, 3 ounces 25c, pound 70c.**

Klondike Cucumber. This variety is one of the best for slicing. The color is rich dark green, and the fruits grow to a uniform size, measuring about 7 inches in length and 2 inches thick when in good condition for use. **Price, ounce 10c, 3 ounces 25c, pound 80c.**

Lettuce

Culture—Lettuce, to be at its best, should be grown rapidly, hence, the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For winter, sow under glass from November to February and thin out as necessary. For general crop, sow outdoors as early in the spring as the ground can be worked, in drills 18 inches apart and thin young plants to 4 inches apart in the row. As the plants begin to crowd, thin them out and use as required. In this way a much longer succession of cutting may be had from the same ground. For best results use our **Quick Crop Fertilizer** for lettuce. **Price, per pound 10c, 3 pounds 25c.**

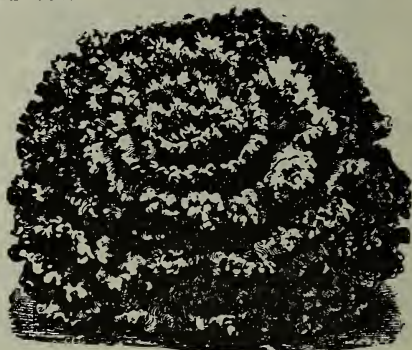
Grand Rapids (Seed black). A lettuce for greenhouse forcing, quick growth, hardy, little liable to rot and remaining in condition several days after being fit to cut. Will stand shipping long distances better than most sorts. **Price, ounce 10c, 2 ounces 15c, ½ pound 40c, pound 70c.**

Black Seeded Simpson. Nearly double the size of an ordinary Curled Simpson. Stands

Cucumbers

Cucumbers thrive best on warm, rich, sandy soil, the richer the better. Crop should never be planted until soil is warm and the trees are out in full leaf. Plant in hills 4 feet apart and thin to about 4 plants to the hill. Second planting about middle of July for fall. One ounce for 50 hills. For best results use our **Quick Crop fertilizer** for cucumbers.

summer well without becoming tough or running to seed quickly. By far the most popular variety for greenhouse forcing, making large, handsome heads in a very short time. **Price, ounce 10c, 2 ounces 15c, ½ pound 40c, pound 70c.**



Early Prize Head. B. (Seed white). A large, clustering, non-heading lettuce. The most easily grown variety in cultivation. The leaves of the variety are crimped, bright green tinged with brownish red, very tender and sweet. **Price, ounce 10c, 2 ounces 15c, ½ pound 40c, pound 70c.**



Big Boston Lettuce.

Big Boston—A. (Seed white). Popular for outdoor culture; a compact, large heading sort. Plants large, very hardy and vigorous; leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp; color bright light green, the head slightly tinged with reddish brown. **Price, ounce 15c, 2 ounces 25c, ¼ pound 50c, pound \$1.00.**

Early Curled Simpson. White seeded. One of the best of the leaf lettuces. Quite similar to Early Curled Silesia. **Price, ounce 10c, 2 ounces 15c, ¼ pound 40c, pound 70c.**

White Cos. Upright, crisp and tender. Sometimes listed as celery lettuce. **Price, ounce 10c, 2 ounces 15c, ½ pound 40c.**

Hanson—Leaves are curly and tender and form a head as large as an early cabbage. Slow to run to seed. Creamy white inside. **Price, ounce 10c, 2 ounces 15c, ½ pound 40c, pound 75c.**

Muskmelon Seed



"Hoodoo." Melon.

Culture—Plant seeds in hills 4 to 6 feet apart each way, after danger of frost is over. Use well rotted manure in the hills. One ounce to 50 hills; 2 to 3 pounds to the acre. A light warm soil is best. In hoeing, draw the soil well up to the plants. Fight bugs with tobacco dust and slug shot.

Rocky Ford (Netted Gem). The flesh is deep and thick, and light green in color. The flavor is exceedingly fine. The skin is regularly ribbed and thickly netted. It is a heavy cropper, and in wide favor as a market melon. These seeds are saved from a field in which only seed melons are grown. Very dependable. Price, ounce 10c, ½ pound 40c, pound 75c.

Culture—The essential thing in melon culture is to get good strong vines early in the season. To this end plant your melons in hills 8 feet apart made rich with some good fertilizer or well rotted manure thoroughly mixed with the soil. As soon as the ground is warm and dry plant 15 to 20 seeds in each hill, and thin out when the plants begin to grow, leaving only 3 to 5 of the most vigorous. Protect the young plants from insects and hasten their growth by the use of liquid manure. From 3 to 5 pounds plant an acre. Fight bugs with slug shot and tobacco dust.

Monte Cristo or **Kleckley's Sweets**. Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium size, oblong, tapering slightly towards the stem end, dark green. Flesh very bright, rich red, exceedingly sweet. So crisp and tender that it will not stand shipping. Price, ounce 10c, ½ pound 35c, pound 60c.

Cole's Early. The earliest watermelon in cultivation. Can be grown in all the Northern states. Valuable for both home and market use where larger varieties will not mature. A larger acreage of this melon is grown in the Northwest every year than of any other variety. Price, ounce 10c, ½ pound 30c, pound 50c.

STANDARD WATERMELONS WITH REAL MERIT.

One Ounce Will Plant Fifty Hills and Four Pounds Will Plant One Acre.

Price, ounce 5c, ½ pound 30c, pound 50c. In 5-pound lots and over 10c per pound may be deducted.

"Hoodoo" Melon (Introducer's Strain). "As alike as peas in a pod." A new orange-fleshed variety of the finest quality. Vine vigorous, remarkably blight resisting and very productive. Fruits small and of uniform size. Netting exceptionally fine and dense, extending practically over the entire surface. Rind thin yet very firm. Flesh very thick, firm, highly colored, of fine texture and delicious flavor. Price, ounce 25c, ¼ pound 60c, pound \$2.00.

Emerald Gem. One of the sweetest melons in cultivation; smooth skin, deep salmon-colored flesh; early and prolific. The ideal home melon. Price, ounce 15c, ½ pound 50c, pound 90c.

Extra Early Hackensack. Ten days earlier than the old **Hackensack**. Flesh light green and excellent in flavor. Price, ounce 10c, ½ pound 50c, 1 pound 75c.

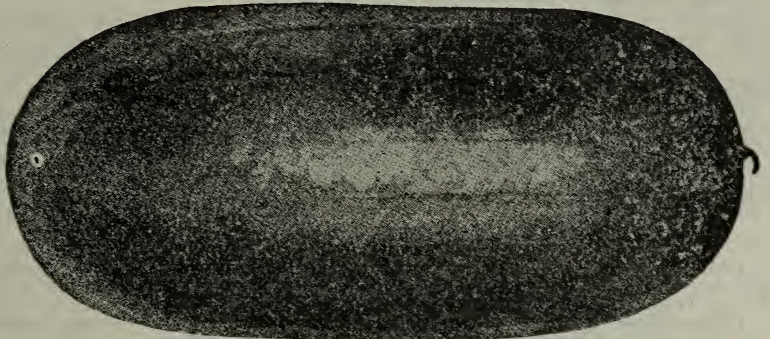
Osage (Salmon and Green). Medium to large sized, oval, slightly ribbed; dark green in color. Flesh is deep salmon color and very thick. Covered more or less with shallow netting. Price, ounce 10c, ½ pound 50c, pound 75c.

Early Citron Landreth's. Very early half flat sort. Flesh green, of fair quality. Price, ounce 10c, ½ pound 50c, pound 75c.

Banana. Cucumber shape. Delicious odor. Rather late maturing. Price, ounce 10c, ½ pound 50c, pound 80c.

HACKENSACK, OR TURK'S CAP. The very earliest of all nutmeg sorts. The fruits sound, flattened at the ends and have very broad ribs. Flesh is green, fine quality. Price, ounce 10c, ½ pound 50c, pound 75c.

Watermelon Seed



Monte Cristo Water Melon.

Fordhook Early. Very early; good size; red flesh of fine quality.

Peerless or Ice Cream. Very early; red flesh, good home melon.

Dark Icing. Early, round, solid, with thin dark green skin; of superior quality.

Light Icing. Round in form like the above; flesh of fine quality.

Gray Monarch, or Long White Icing. Very large, long; crimson flesh.

Black Diamond. Large, round; skin dark green; tough; red flesh, fair quality.

Sweet Heart. Mottled light green; large, oval, heavy; red flesh; fine shipper.

Alabama Sweet. A grand new shipping melon; equal to Icing, Kleckley and Florida Favorite in luscious quality; long, dark green, continuous bearer.

Cuban Queen. Early, solid and heavy; skin striped dark and light green.

Kolb Gem. Very large; flesh red; a good shipping sort; popular in the South.

Florida Favorite. A superior strain; large, oblong, striped; luscious red flesh.

Tom Watson. Very large; dark green; light crimson flesh of good flavor.

Georgia Rattlesnake. Oblong, dark and striped; bright red flesh.

Green Citron (Red seed). Round and handsome; for preserving only.

Mushroom Spawn

One of the most luxurious and highly prized of all vegetables. The increase in the demand for it is wonderful and the prices are not only maintained, but increased.

MUSHROOM CULTURE—Mushrooms may be grown any place where the conditions of temperature and moisture are favorable. A shed, cellar, cave or vacant space in green house. Twelve page pamphlet telling how to prepare bed, plant and grow the crop, 25c each, free with order for \$1.00 worth of spawn.

We carry the American Spawn Co.'s **Pure Mushroom Spawn**, conceded to be the best spawn sold. Always fresh.

American Spawn, in bricks, each	\$0.30
One brick, by mail, postpaid .....	.40
American Spawn, lots of 10 bricks	2.00
French Mushroom Spawn, put up in 2-pound boxes (imported), per box	1.50

Parsnip

(One ounce will sow 200 feet of drill.) Sow early in spring in good, rich soil, which has been plowed deep. They are improved by frost.

Improved Hollow Crown—Fine grained and excellent. Price, ounce 10c, ¼ pound 25c, pound 60c.

Pepper

(One ounce will produce about 1,800 plants.)

Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable. Seeds germinate slowly and require considerable heat.

Large Bell, or Bull Nose. An early standard sort. Price, ounce 15c, ¼ pound 50c.

Chinese Giant. Most gigantic of all Giant Peppers. A fine mild red pepper, of enormous size, magnificent appearance and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Price, ½ ounce 15c, ounce 40c, ¼ pound \$1.25.

Red Cayenne. Pods long and slim, of medium size. Pungent. Price, ounce 25c, ¼ pound 75c.

Ruby King. Very large size. When ripe they are of a beautiful bright ruby red color. Price, ounce 20c, ¼ pound 60c.

Pumpkin

Culture. Plant from May to July in hills 6 feet apart each way. One ounce for 15 hills; two pounds to an acre.

Connecticut Field or Cow Pumpkins. The big yellow kind that is grown so much in the corn fields. Price, ounce 5c, pound 25c, 5 pounds \$1.00.

Small Sugar. Best of all pie pumpkins. Very sweet and tender. Looks like a Yankee Pumpkin, but smaller. Early and prolific. Price, ounce 5c, ¼ pound 15c, pound 50c.

Quaker Pie. A very prolific variety, a good keeper, and one of the best for pies. Price, ounce 10c, ¼ pound 25c, pound 75c.

Squash



Hubbard Squash, True Warty.

SQUASH—True Warty Hubbard. The standard winter squash. Large, olive-shaped, with dark green skin and very rich flesh. Almost everyone is well acquainted with the Warty Hubbard. Our strain is extra fine and very warty. Price, ounce 10c, ¼ pound 25c, pound 75c, 5 pounds \$3.50.

Red or Golden Hubbard. A perfect type of the Green Hubbard except in color, which is a bright, deep orange-yellow, very showy and attractive. Flesh deep, golden yellow. Price, ounce 10c, ¼ pound 25c, pound 75c.

SQUASH—Mammoth Chili. A very large and attractive variety. The skin is a rich orange yellow; flesh thick, fine grained and sweet. Price, ounce 10c, ¼ pound 25c, pound 75c.

SQUASH—Early White Bush. Price, ounce 10c, ½ pound 40c, pound 75c.

SQUASH—Golden Summer Crookneck—Price, ounce 10c, ½ pound 30c, pound 60c.

Delicious. A dark green variety, with thick orange-colored flesh, of very best quality. Price, ounce 15c, ¼ pound 45c, pound \$1.00.



Field of Michael's Early Mudock. See page 23



Early Richmond Cherry in Fruit.

See page 25

Onion Seeds

The Onion not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life. The odor it imparts to the breath may be avoided by thorough cooking.

In onion culture thorough preparation of the ground, careful sowing and the best of after culture, though essential, avail nothing unless seed of the best quality be used.

Sow the seed as soon as the ground can be gotten ready, and it can be done best with a Planet Jr. hand seed drill adjusted to sow the desired quantity of seed about one-half inch deep. The quantity needed will vary with the soil, the seed used and the kind of onions desired. This seedling gives much larger onions than thick seeding. Four to five pounds

per acre is the usual quantity needed to grow large onions.

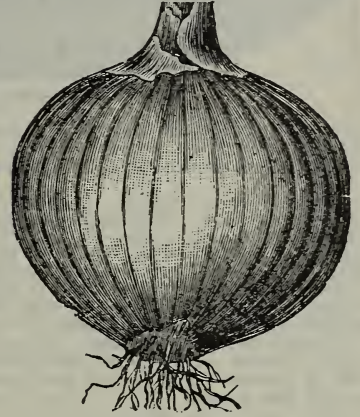
Gathering—As soon as the tops die and fall, the bulbs should be gathered into windrows. Cut off the tops when perfectly dry; leave lay a few days.



ONION—Large Red Weathersfield. The best known of all the onions. Good seller, great keeper, the best of all standard sorts. My stock of this onion seed is most select and sure to grow. Price, ounce 10c, 3 ounces 25c, pound \$1.00, 10 pounds \$9.00.

ONION—White Globe. This is the largest successful pure white onion in cultivation. Perfect globe shape, very solid, keeps well, and always brings the top of the market. Price, ounce 20c, ½ pound \$1.25, pound \$2.25.

ONION—Southport Red Globe. On account of its beautiful shape and rich red color,



Red Globe

these onions bring a premium in any market and an excellent keeper. The seed we offer is grown from true type bulbs. Subject to test before planting and if not found absolutely satisfactory money will be refunded. Price, ounce 10c, ½ pound 70c, 1 pound \$1.35, 5 pounds \$6.50, 10 pounds \$12.00.

Yellow Globe Danvers. The most extensively used yellow onions. Bulbs of medium size, uniformly globe shaped, with small neck, and ripen very evenly. Flesh white, crisp, and of mild and excellent flavor. Price, ounce 10c, ¼ pound 50c, pound \$1.50.

	½ oz.	oz.	½ lb.	lb.
ONIONS—Extra Early Red Flat	\$0.10	\$0.15	\$0.75	\$1.25
Prize Taker (the largest onion grown, very mild) .....	.10	.15	.85	1.60
White Silver Skin, round white medium.....	.10	.20	1.25	2.00
Mammoth Silver King, a large white onion.....	.10	.15	.85	1.50
New Queen, early small, white onion for pickling .....	.10	.15	.80	1.50

**BOTTOM
ONION SETS**

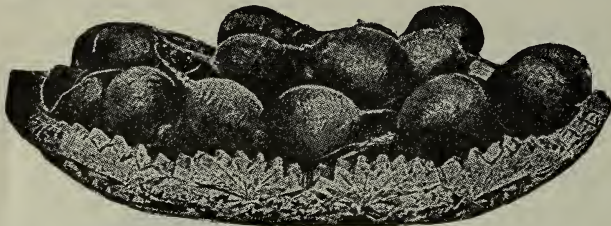


**POTATO
ONION SETS**



Many prefer to grow onions from sets, as they are less trouble and are ready for use earlier than those grown from seed. Our sets this year are very nice and just the right size. One quart will plant a row 50 feet long. Ten bushels will plant one acre. Bottom Sets do not reproduce large bulbs, may be set either in spring or fall and are valuable for extra early bunching ahead of anything else. They come up early in spring without any protection and furnish the earliest onions. White Multipliers are fine for bunching green. Bottom Sets and Multipliers weigh per bushel, 32 lbs.; Top Sets, bushel, 30 lbs. Bushel prices are subject to market changes. Special Prices in Large Lots on all Varieties. Onion Sets, per quart, 10c.

Radish Seed



Early Scarlet Globe

begins it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy as the earlier sorts are apt to do when planted in late summer time. One ounce sows about 50 feet of row.

Early Scarlet Globe. A desirable sort for hotbed forcing and outdoor planting. Very early; top small. One of the best selling and most attractive radishes on account of its bright scarlet color and handsome shape; flesh white and tender, fit to pull in 28 days. Price, ounce 10c, 2 ounces 15c, ½ pound 30c, pound 50c, 5 pounds \$2.50.

Early Scarlet Turnip. A splendid extra early, round bright red radish. Price, ounce 10c, 2 ounces 15c, pound 50c, postpaid. Plant every ten days.



Saxa Globe Radish.

Saxa Globe Radish. This is the best forcing and quickest outdoor radish to date. A new 20-day variety. Remarkable for the small size of its leaves. The flesh is firm, crisp and fine quality, dark red, globe shape, bulbs of even size. Price, in originator's sealed package, each 15c.

Scarlet Turnip, White Tipped. One of the handsomest of the turnip radishes and a great favorite in many large markets for early outdoor planting. Roots slightly flattened on the under side, color very deep scarlet with a white tip; flesh white and of the best quality. Price, ounce 10c, 2 ounces 15c, ½ pound 30c, pound 50c.

Culture—For forcing under glass, scatter evenly over the surface 100 seeds to the square foot and cover with one-half inch of soil, sifted. For open ground culture, sow on rich, sandy soil as soon in spring as it is fit to work, in drills twelve inches apart and thin out the plants if necessary to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender and brittle roots. Successional sowing from one week to ten days apart will keep up a supply.

After the hot weather of summer

Our Radish Seed is the very best French Grown. Seed all raised from transplanted roots. These were selected on the following points: Earliness, uniformity of shape, size and color, with the thinnest kind of tap root. The quality is the best obtainable.



French Breakfast

Remember a succession is secured by planting seed every ten days.

Icele, the Finest Eating, a Most Distinctive Long White Radish. The best eating radish, and the best white variety. This sort has long, slender, pure white roots, which remain mild and crisp until they grow of larger size. Tops are quite short, making it early, and also allowing close planting. A succession is secured by planting seed every ten days. Price, packet 5c, ounce 10c, ¼ pound 20c, pound 60c.

Crimson Giant. This we consider the greatest new radish of German origin. An early sort, looking much like the old Early Scarlet Globe, but more perfect in shape and color. It comes as early as any radish, but the amazing thing about it is that it keeps on growing and remains tender, solid and sweet until it gets as large as a teacup, or larger. Price, ounce 10c, 2 ounces 15c, ½ pound 30c, pound 50c.

RADISHES—	1 oz.	2 oz.	½ lb.	1 lb.
French Breakfast stump rooted sort.....	\$0.10	\$0.15	\$0.30	\$0.50
Long Scarlet Short Top .....	.10	.15	.30	.50
Brightest Long Scarlet..	.10	.15	.30	.50
Chartier, half long white bottom .....	.10	.15	.30	.50
White Vienna or Lady Finger .....	.10	.15	.30	.50
White Strasburg .....	.10	.15	.30	.50
Early White Turnip.....	.10	.15	.30	.60

WINTER SORTS.

Cal. Mam. White Winter	\$0.10	\$0.15	\$0.35	\$0.60
Rose White Winter.....	.10	.15	.35	.60
Black Spanish, round or long .....	.10	.15	.30	.55

Special Prices 5 to 10 lb. lots on all sorts

Spinach

An easily grown plant, the seed may be planted in the fall to secure good spinach early in the spring or even throughout the winter. The better and richer the soil, the larger and more tender the leaves will be. Use 8 pounds of seed per acre. For the home garden use one-half ounce for 100 feet of row.

Long Standing. A deep green variety with rather elongated smooth leaves. Seed, round. Stands a long time without running to seed. Price, ounce 5c, pound 25c, 10 pounds \$1.80.

Bloomsdale Savoy. The variety most generally used. Leaves large, round, and thick, very much savoyed and rich deep green. One of the earliest varieties. Price, ounce 5c, pound 25c, 10 pounds \$1.80.

Specially Saved Tomato Seeds

We do not use Canning Factory Seed.

One ounce produces about 2,000 plants. For early crop, sow in hotbeds in January or February. For late crop, in open beds in May.

Culture. Sow in a hotbed in early spring, or the seed may be sown in shallow boxes and placed in a window when one does not wish to have the trouble of making a hotbed. Transplant to the open ground when all danger of frost is past, setting the plants three or four feet apart each way. Use Bone and Potash Fertilizer, or well rotted manure in the hills.



Dwarf Champion Tomato.

Dwarf Champion. A purple fruited variety forming a strong, erect, bushy plant two feet high. Often sold as Tree Tomato. Fruit smooth, medium sized, fairly solid and of good flavor. Desirable for forcing, as it can be planted more closely on the bench than the tall growing kinds. Price, ½ ounce 15c, ounce 25c, ¼ pound 65c.

Earliana. It is a full week ahead of all others. Plants of strong growth and very productive. Fruit large, deep red, and of superior quality. Smooth and free from cracks. Price, ½ ounce 10c, ounce 20c, ¼ pound 60c.

Early Acme. One of the earliest and handsomest varieties. Medium size, perfectly smooth and regular, very solid fruit, borne profusely. Dark red with purplish tint. Early Acme will please every grower. Price, ½ ounce 10c, ounce 20c, ¼ pound 60c.

Stone. One of the heaviest and most solid fruited of the large tomatoes of good quality. Vines vigorous and productive. Fruit round, slightly flattened, very large and astonishingly heavy. Price, ½ ounce 10c, ounce 20c, ¼ pound 60c.

Trophy. Extra selected. A very large, smooth and solid variety, of fine flavor, and

immensely productive. Price, ½ ounce 10c, ounce 20c, ¼ pound 60c.

Livingston's Globe. A new, very large, purple fruited tomato of excellent quality. Fruits very smooth and mature earlier than most main crop sorts. The average tomato is very deep, almost globe shaped. Price, ½ ounce 15c, ounce 25c.

Ponderosa. The largest variety in cultivation. Price, ½ ounce 15c, ounce 25c.

Ignotum. Earliest of the large, deep red, smooth varieties. Price, ½ ounce 10c, ounce 20c.

Golden Queen. A very handsome yellow tomato of large size. Price, ½ ounce 10c, ounce 20c.

Yellow Pear and Yellow Plum. A small yellow tomato; is grown for preserves. Price, ½ ounce 15c, ounce 25c.

Other Varieties. We can supply any of the standard sorts, whether listed here or not.

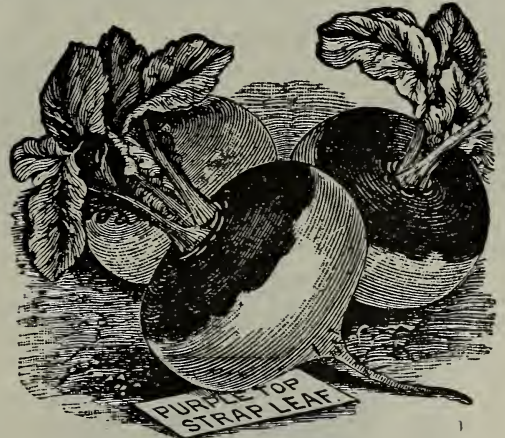
For Tomato Plants, see page 17.

Turnips

Early Turnips should be planted very early. **Late Turnips** can be sown in July or August and will keep growing until the ground freezes. Use 2 pounds of seed to an acre.

Extra Early White Milan. The earliest turnip. Tops very small, very erect and compact. Price, ounce 10c, ½ pound 35c, pound 65c.

Extra Early Purple Top Milan. Similar to the White Milan, except that the roots are a little more flat, and the upper portion is a beautiful purple-red. Price, ounce 10c, ½ pound 35c, pound 65c.



Purple Top, Strap-Leaved. The most popular sort. More largely grown than any other turnips; will form good sized bulbs in seven or eight weeks. Rather flat and of medium size. Color purple above ground, white below. Price, ounce 5c, ½ pound 25c, pound 40c, 5 pounds \$1.75.

Purple Top White Globe. Of a perfect globe shape, with smooth, white skin; flesh pure white, firm and crisp and of quick growth. A good keeper and is fine for market. Price, ounce 5c, ½ pound 25c, pound 40c, 5 pounds \$1.75.

Rutabaga or Swedes

Ruta-Baga, or Swedes—Improved American Purple Top. For fine qualities and productiveness this is the best. The roots are finer and larger than the ordinary; the flesh is a rich yellow. Price, ounce 5c, ½ pound 25c, pound 40c.

Miscellaneous Vegetables

Asparagus

The Asparagus bed furnishes the first green delicacy for the table in the spring, is universally popular, and requires but little care.

Conover's Colossal. The standard variety. **Price, ounce 10c.**

Columbian Mammoth White. A new variety, with white shoots that stay white. Rather more vigorous in growth and with larger shoots than Conover's Colossal. **Price, ounce 10c.**

See plants, page 17.

Brussels Sprouts

Improved Half Dwarf. The plants grow two to three feet high and produce from the sides of the stalk numerous little sprouts which resemble small cabbages one or two inches in diameter. **Price, ½ ounce 15c, ounce 25c.**

Broccoli

The culture is the same in all essentials as for cauliflower. Broccoli is grown most successfully where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower. **Price, ½ ounce 15c, ounce 25c.**

Cress or Pepper Grass

Early Curled. Well known salad. Sow at intervals all season. **Price, ounce 10c.**

True Water. Sow seeds along the border of running water. **Price, ½ ounce 20c.**

Endive

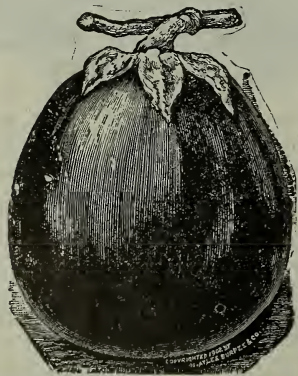
(One ounce will sow about 60 square feet.)

Preferred to lettuce by those who have tried it. One of the best salads for fall and winter use. Sow seed in April for early use or in June or July for winter use. When leaves are eight inches long tie them together with a string near the top to blanch. **Price, ounce 10c.**

Dwarf German. Very hardy, with dark green leaves; much improved by frost. **Price, ounce 10c, ¼ pound 25c.**

Egg Plant

A tender plant that should be started quite early in a hotbed and transplanted.



Improved New York Purple.

New York Improved Large Purple. Fruits large, nearly round, dark purple, free of thorns. **Price, ½ ounce 20c, ounce 35c.**

Black Beauty. Fruit large, symmetrical in shape and of a rich dark purple color. Little earlier than our Improved Large Purple. **Price, ½ ounce 20c, ounce 35c.**

Kale or Brorecole

Dwarf German. Very hardy, with dark green leaves; much improved by frost. **Price, ounce 10c, ¼ pound 25c.**

Dwarf Curled Scotch. Dwarf beautifully curled, bright green and very hardy. **Price, ounce 10c, ¼ pound 25c.**

Kohl Rabi

The Kohl Rabi is a vegetable intermediate between the cabbage and turnip and somewhat resembles each in flavor. The edible part is a turnip shaped bush formed by the enlargement of the stem. **Price, ½ ounce 10c, 2 ounces 25c.**

Early White Vienna. Extremely early, with distinctly small tops. Bulbs white, of medium size. **Price, ½ ounce 10c, 2 ounces 25c.**

Early White Vienna. Very early, with small top, the leaf stems being tinged with purple. Bulb bright purple. **Price, ½ ounce 10c, 2 ounces 25c.**

Leek

Belongs to the onion family. When the young plant is about the size of a goose quill, transplant. Reset four or five inches apart in the row. Set the roots deep and draw the earth to them when cultivating.

London Flag. The variety generally cultivated in this country. **Price, ounce 10c, 2 ounces 20c, ¼ pound 30c.**

Mustard

Black or Brown. **Price, ounce 10c, ¼ pound 15c, pound 40c, postpaid.**

New White Chinese. Leaves tender and delicious. **Price, ounce 10c.**

Okra or Gumbo

This vegetable is extremely easy to grow, and its young seed pods are delicious in soups and alone.

White Velvet. Best variety. **Price, ounce 15c.**

Parsley

(One ounce will sow 150 feet of drill.)

Sow very early, thinly in drills one foot apart and half an inch deep. Soak seed in warm water a few hours before sowing. **Price, ounce 10c, ¼ pound 25c, pound 65c.**

Champion Moss Curled. A very select stock, finely crimped and curled.

Hamburg. Turnip-rooted variety, used for flavoring soups.

Rhubarb

Easily raised from seed.

Large Victoria. The standard variety. **Price, ounce 10c, ¼ pound 30c, pound 85c, postpaid.**

For Rhubarb Roots, see page 17.

Salsify

Mammoth Sandwich Island. By far the largest and best for market. Roots of superior quality and double the size of the old variety. **Price, ounce 15c, ¼ pound 35c, pound \$1.00.**

Sweet Herbs

	Oz.
Anise Seeds, Aromatic.....	\$0.10
Caraway, for flavoring.....	.10
Catnip (Cat Mint).....	.30
Chickory, Large Rooted.....	.10
Corlander, for flavoring.....	.10
Dill (50c lb., 2 oz. 15c).....	.10
Lavender.....	.10
Marjoram, Sweet.....	.10
Saffron.....	.10
Sage, Broad Leaf.....	.10
Savory, Summer.....	.10
Thyme.....	.30



Bulk Flower Seeds

Are better, cost less, more certain to grow than paper seeds.

One of the most cherished recollections that we have of our mother's or grandmother's home is that of the beautiful array of brilliantly colored flowers—marigolds, daisies, pansies, balsams, asters, pinks, poppies, nasturtiums and other flowers in great array.

Prices—All Flower Seeds in Bulk put up in 5c, 10c, 15c and 25c quantities of each sort to suit buyer.

Ageratum—A beautiful hardy annual, covered with bloom all summer.

Alyssum—Sweet-scented, hardy annual blooms early in the spring; a pure white flower, and continues to bloom until late autumn. **Little Gem**, annual; **Saxtile**, yellow perennial.

Aster—In their many varieties and colors, are the grandest and most beautiful flowers that bloom in the home garden. **Giant Comet Branching Asters** (Ostrich feathered type) mixed; **Daybreak Pink Aster**, soft pink; **Lavender, Pure White Crimson**.

Balsam—Known as **Lady Slipper**, and **Touch-Me-Not**. The colors range from white to dark purple. Hardy annual, one to two feet high. **Mixed Double Sorts**.

Calliopsis—Showy border plant, flowers bright yellow or rich brown, either self-colored or with these colors and red contrasted. All sorts mixed.

Candytuft—Showy, branching plants six to twelve inches high; will bloom from July to September, or if in the fall from May to July. All sorts mixed.

Castor Bean (Ricinus)—Tall, majestic plants for lawns, with leaves of green metallic blue; of very quick growth in rich soil. **Zanzibariensis**; **Gibsonia**, beautiful bronze.

Carnation—"Florist's Pink," easily grown from seed, free bloomings; flowers bright with clove-like fragrance; some varieties are suited for house plants; others do best in the open ground. Plant in April. Half hardy perennial. **Margaret Mixed, Dwarf Mixed**.

Centurea-Cyanus (Bachelor Buttons, Corn Flower) in its improved forms is one of the most attractive of garden flowers. One to two feet high. **Double Mixed**.

Coreopsis—Very showy, free flowering plants, native of this country, fine for borders and beds. **Yellow Flowering**.

Cosmos—A very effective autumn flower; bush-like plants 3 to 5 feet high, and covered with large single dahlia-like flowers. **Early Flowering**, mixed.

Cyprus Vine—A most beautiful climber, with delicate, dark green, feathery foliage, scarlet blossoms. Tender annual.

Forget-Me-Not (Myosotis)—A favorite old-fashioned flower, bearing in profusion clusters of blue blossoms. It thrives well in the shade or open border. Hardy perennial.

Four O'clock (Marvel of Peru)—The flowers are funnel-shaped and open about 4 o'clock in the afternoon and remain open all night and generally perish before noon next day; will grow in any soil. Hardy annual 2 feet high.

Heliotrope—Highly valued for the fragrance of their flowers and duration of bloom.

Job's Tears—An ornamental grass known botanically as *Coix Lachryma*. Grows 2 to 3 feet high, with broad, corn-like leaves.

Kochia, or Summer Cypress—(*Kochia Tri-*

cophyllia). A highly ornamental annual of rapid growth which forms regular pyramids about 3 feet high, having a cypress-like appearance. Its bright autumn coloring has given it two other names: "Mexican Fire Plant" and "Burning Bush." Sow in open ground about May 1st.

Marigold—Old-fashioned flower blooming in profusion; usually 2 feet high; blooms till frost comes.

Mignonette—A well-known hardy annual, producing exceedingly fragrant flowers. Seed sown in autumn will bloom early in the spring; thrives best in cool temperature; 1 foot high. **Mixed Sorts and New Matchet**.

Morning Glory—Handsome, showy, climber, suitable for covering windows, trellis, old stumps, etc., if support be given the vines. Hardy annual; 10 feet high. **Giant Japanese Mixed**.

Pansies—Pansies are now produced in almost infinite variety of form, color and markings. We have the plants as well as seed. See page 17 for plants. **Giant Flowering**, all colors; **Choice Mixed**, many colors, **Masterpiece Double**, fluted flower.



Michaels Bush Pansy.

Michael Bush Pansy—A new class of pansies of erect habit growth. Stalks strong, rising vertically from the roots, grouping

themselves in a compact sheaf-like bush. Free bloomers, blotched and frilled (with double effect). Flowers of immense size and extensive range of color. **Price, trade packet (100 seeds), 25c.**

Pinks—For beautiful and lasting cut flowers, ease of culture and freedom of bloom, the hardy garden pinks have no superior annuals; 18 inches high. **Chinese Double**, fine mixed; **Midnight Blood Red**, **Double White**.

Poppies—Great advance has been made in recent years in the development of the Poppy. No other flower produces a more brilliant display of colors during blooming period. **Double Carnation Type**, **New Shirley**, **Dazzling Silk Scarlet**; **Oriental Poppy**, brilliant color; **Eschsholtzia (California Poppy)**.

Portulacca or Rose Moss—There are few flowers in cultivation that make such a dazzling display of color in the bright sunshine as a bed of Portulaccas. The flowers close in shadow, but are open in sunshine. We carry **Single Mixed** and **Double Mixed**.

Salvia—Among the most brilliant colored flowers and extremely useful for bedding. Blooms are of fiery red, crimson color, continuing to flower for a long time. Tender perennials; blooms until frost; height 2 to 3 feet. See page 18 for plants. **Salvia Splendens**, scarlet flowered.

Salpiglossis—Very showy bedding or border plants, with richly colored, funnel-shaped flowers, which are purple, scarlet, crimson, yellow, buff, blue and almost black; height 1 foot. **Fine Mixed Sorts**.

Stocks—To such perfection has selection brought this flower that good seed will give a large proportion of exceedingly double flowers. Average height 1½ feet. **Double German**.

Sensitive Plant—Very pretty and curious plant, its leaves closing when touched. The seeds start slow and it is best to start them in boxes; cover shallow and see that they do not dry out; it makes a good house plant for winter, and always pleases the children.

Sweet William—For display in the garden, the Sweet William is unsurpassed. The seed can be planted in the spring in the open ground, and will blossom in the fall. Hardy perennial; 1½ feet high. **Fine Mixed Single**, **Mixed Double**.

Verbena—Sown in May, they will bloom in August, but if started in the house in pots in winter, they will be in bloom sooner. Seed should be soaked in lukewarm water before planting, and care should be taken that the soil be very rich. Half hardy perennial trailer; 6 to 10 inches high. **Fine Mixed Sorts**.

Zinnia—Showy plants, with large double flowers. Might be taken for dwarf Dahlias. Few flowers are more easily grown or bloom more abundantly throughout the season. Sow the seed early and transplant to 1½ feet apart in good rich soil. **Mixed Double**, all colors.

Jaqueminot Zinnia

This splendid red-flowering **Zinnia** surpasses any other that has ever been grown. The plants are strong, vigorous growers, about 18 inches high. Just covered with vel-



Jaqueminot Zinnia.

vety double red flowers throughout the summer until frost in the fall. So vivid and dazzling are their beautiful blooms that they attract the attention of every beholder and are always remembered whenever once seen. It is the easiest plant grown that is known among flowers. The seed is vitally strong and comes very quick. Plant in rich soil, water some in dry spells, and you will never regret planting this elegant flower. **Price, per packet 10c.**

A package of the **Zinnia** sent free to any inquiry we get through the mails for information or prices from out of town customers.

Sweet Peas

Sweet Peas—Sweet Peas are among the most beautiful of all our hardy annuals. Select a sunny, open place several feet from any building and as far as possible from large trees. Sow as early in the spring as possible. Plant in rows and have the rows trenched for planting 4 to 6 inches deep. In dry weather water freely and keep the flowers picked closely. If allowed to go to seed the plants will stop blooming.

Spencer Varieties

The **Spencer Types** are of exceptionally large size, the wings waved or frilled and the effect remarkably graceful and attractive. All Spencers are decidedly shy feeders. The price higher than for the older types. We offer what we consider to be the best varieties.

Apple Blossom Spencer—Bright rose standard with primrose wings. Very large; true Spencer form. **Price, ½ ounce 10c, ounce 25c.**

Blanche Ferry Spencer—This is similar in color to the old Blanche Ferry. The pink is usually a little darker than Blanche Ferry and some of the flowers show striping. It is one of the most attractive varieties ever introduced. **Price, ½ ounce 25c, ounce 40c.**

White Spencer—Standard and wings of pure white, beautifully waved and fluted. An

especially attractive variety of very large size. **Price, ½ ounce 25c, ounce 50c.**

Countess Spencer—Bright clear pink; very large, open form; long stems. A very desirable variety. **Price, ½ ounce 10c, ounce 20c.**

Spencer's Mixed—All the Spencer varieties included in making up this magnificent mixture. A splendid range of colors is thus assured in remarkably large size and wonderfully attractive form. **Price, ½ ounce 10c, ounce 20c.**

Lavender Sweet Pea (Countess of Radnor)—Self colored in a very distinct and beautiful shade of lavender. Price, ½ ounce 5c, ounce 10c.

Blue Sweet Pea (Navy Blue)—A true blue, quite distinct. Standard indigo and violet; wings navy blue. Price, ½ ounce 5c, ounce 10c.

Pink Sweet Pea (Katherine Tracy)—A soft brilliant pink in wings and standard. Plants vigorous flowers. Good size. Price, ½ ounce 5c; ounce 10c.

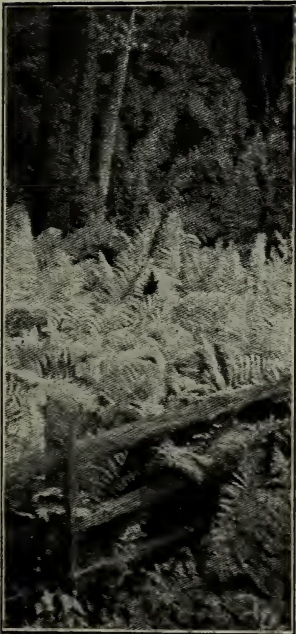
White Sweet Pea (Emily Henderson)—A well-formed, clear white flower of medium size. An early free and persistent bloomer. Price, ½ ounce 5c, ounce 10c.



Red Sweet Pea (Firefly)—Very bright, intense crimson scarlet, of good size. Price, ½ ounce 5c, ounce 10c.

Mixed Sweet Peas (Eckford Mixture)—Contains over thirty varieties, including some of the novelties of 1911. Price, ounce 10c.

Mixed Sweet Peas (Michael's Mixture)—All colors, in grand good mixture. Contains over twenty varieties. Price, ounce 10c, ¼ pound 25c, pound 90c.



Ostrich Fern.

Nasturtiums

GIANT FLOWERING

Nasturtium—Few flowers equal the **Nasturtium** in richness and variety of colors, freedom of bloom and ease of culture. They are suitable for bedding and handsome climbers, grow quickly, thrive in the poorest soil and furnish the greatest abundance of long-lasting, sweet-scented cut flowers.



King Theodore—Rich deep crimson flower; most striking and beautiful of all tall-growing **Nasturtium**. Foliage dark green and vigorous. Price, ounce 15c, 4 oz. 50c.

Lobb's Climbing Nasturtiums—These should not be confounded with the common tall **Nasturtiums**, as they surpass them by far in the remarkable brilliancy of the flowers. The flowers are much larger than those of the old-fashioned kind, and in nearly all of them the petals overlap each other. Price, ounce 15c.

Fall Chameleon—The flowers of this new **nasturtium** are in color crimson, gold and bronze, bordered and flamed, changing in hue almost daily, hence named "Chameleon." Price, ounce 15c.

DWARF NASTURTIIUM

Tom Thumb—Dark scarlet, dark leaves.

Dwarf King Theodore—Deep crimson.

Dwarf Chameleon—Various colors on one plant.

Dwarf Dark-Leaved Varieties—Mixed all colors.

Price, any of the Dwarf varieties: ounce 10c, ¼ pound 30c.

Ferns

HARDY FERNS FOR OUTDOOR CULTURE

Many of our native hardy ferns take as readily to cultivation as the common garden flowers.

Ostrich Fern—A very handsome species, grows 3 to 5 feet high; graceful as a palm; one of the most satisfactory to grow. Plant about 2 feet apart if several are needed. 25c each, 3 for 60c, \$2.00 per dozen.

Osmonda Claytoniana Fern—Is clothed with loose wool when unfolding its fronds in the spring, soon becoming perfectly smooth. This fern, 2 to 3 feet high, is found in rather dry, shaded places. 25c each, 3 for 60c, \$2.00 per dozen.

Autumn Planting Bulbs

FOR EARLY SPRING FLOWERS

SEASON TO PLANT, OCTOBER AND NOVEMBER

Hyacinth, Tulips, Narcissus, Jonquils, Crocus and Snowdrops, which bloom so early in the spring are for Autumn Planting only.

Many persons, seeing these beautiful flowers all abloom in early springtime, think they can get some too, right away, but alas, their surprise and chagrin when informed that to have them in **Springtime** all abloom the bulbs must be planted the autumn before. We have a Catalog of all these **Bulbs and Herbaceous Perennial Roots** for autumn planting, prices, descriptions, etc., free for the asking.

Remember—We have a complete line of these bulbs in season.

Bulbs and Roots—Flowering Plants

FOR SPRING PLANTING

Canna

The king of bedders. The plant requires deeply dug, well enriched soil. Plant when ground is warm. The bulbs are slow to grow until weather gets hot. Water sparingly at first, freely during hot weather. Set the plants 18 inches apart each way, using the taller kinds for the center and dwarf kinds for the outer edge. See page 17 for plants. **Mixed Sorts**, all colors, tall or dwarf, each 10c, 75c per dozen.



Musafolia Canna—A tall-growing sort; banana-like green foliage; flowers red, immense green leaves, edged with bronze, 8 feet tall. **Price**, 5c each, dozen 50c.

Florence Vaughan Canna—Five feet. The most famous of all, green foliage, new Can-nas. The flowers are rich golden yellow, thickly dotted with bright golden red. **Price**, each 10c, dozen \$1.00.

King Humbert Canna—Velvety orange-scarlet, flecked carmine; heart-shaped leaves of a deep purple, bronze foliage. **Price**, 20c each, 3 for 50c.

Common Mixture Canna (Home Raised)—Native stuff. **Price**, each 5c, dozen 40c. See Potted Canna Plants, page 17.

Dahlia

As a home flower nothing equals the Dahlia. The roots are easily injured by frost, so should not be planted until danger is past. Plant the roots two feet apart, about four inches deep; lay them flat on side. Plant only named sorts, nothing else pays.

Mrs. Winter's Dahlia—Pure Snow White Blossoms; 25c each, 3 for 60c.

Ingeborg Egelund Cactus Dahlia, Beautiful Silk Crimson; 30c each, 3 for 75c.

C. W. Burton, best yellow, each 25c; 3 for 75c.

Agnew—Large red, each 25c; 3 for 75c.

Mixed Sorts—Each 5c, dozen 50c.

Gladiolus—Planted every two weeks from time soil can be cultivated until July will give a lot of bloom from June until cut down by frost. Plant 6 inches apart in rows.

	Each	Doz.
Choice Mixtures , all colors.....	\$0.05	\$0.25
Scarlet and Red Shades.....	.05	.40
Rainbow Mixture .....	.05	.40

Tuberoses—Large blooming bulbs; this is one of the bulbs all should have. Synonym of sweetness and purity. **Kinds: Dwarf, Pearl or Tall Double**, each 5c, 12 for 35c.

Elephant's Ear (Calladium Esculentum)—Grand tropic-lookign plant. In rich soil, if freely watered, they will produce enormous leaves, frequently four feet long, three feet wide. Height 4 to 5 feet. Fair sized bulbs 10c each; medium bulbs 25c, monster Giant bulb, 75c.

Hollyhock Roots—This old-time flower appeals to our sentimental affection of the long ago and is still dear to us. A good background for the lower-growing plants. **Separate colors**, pink, white, crimson or yellow. **Roots** 15c each; 2 for 25c; per dozen, \$1.25.

Lily of the Valley—The most charming of the spring perennials. **Pips** 5c each; dozen, 50c; large clumps, 25c each.

Cinnamon Vine—A rapid-growing climber. The leaves are bright glossy-green; often running 25 to 40 feet. Good roots. Each, 5c; dozen, 50c; extra large roots, each, 10c; dozen, \$1.00.

Platycodon (Chinese Bell Flower)—One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps, and are excellent for planting in permanent borders or among shrubbery. Each, 25c; per dozen, \$2.50.

Shasta Daisy—Perfectly hardy, of easy cultivation and blooms for several months. **Potted clumps**, each 25c; 12 for \$2.00.

Hardy Phloxes—Extremely showy and satisfactory plant. All colors. **Choice roots**. **Price**, 10c each; \$1.00 per dozen.

Bleeding Heart—An old-fashioned favorite, equally well adapted for forcing as for planting the open border. **Large clumps**, 35c each; **small clumps**, 15c each.

Madeira Vines—One of the best and most popular climbers, on account of its leaves, which are small dark green and very dense. **Strong roots**, 5c each; 50c dozen.

Gaillardia—A showy, valuable plant, growing about two feet high, beginning to bloom in June and continuing through the season. Flowers about three inches in diameter, center dark reddish-brown; petals vary from scarlet-orange to crimson. **Price**, 10c each; per dozen, 75c.

Golden Glow Chrysanthemum—A large, very showy plant, attaining a height of six to eight feet, producing hundreds of flowers of a deep golden yellow color, resembling yellow Chrysanthemums. **Price**, 10c each; 3 for 25c.

Yucca Filamentosa—Adam's Needle. An effective herbaceous plant, with long, narrow, bright green leaves. The flowers are creamy white, bell-shaped, produced on long stems three to four feet high. **Price**, young plants, each 25c; 5 for \$1.00. Large plants, 50c each.

Coriopses Grandiflora—A showy border plant about 2 feet high with large handsome orange yellow flowers; blooms through the season. **Price**, each 20c.

SEED POTATOES AND FIELD SEEDS, SEE PAGE 22



Flowering Plants

For Bedding, Window Boxes
Vases and Hanging Baskets

We grow large quantities of all these popular varieties of flowering plants

Hanging Baskets—All filled with beautiful plants and swinging from ceiling on porch or veranda is charming and attractive to the home. **Price, \$1.50, \$2.00 and \$3.00 each**, according to size and plants used.



Aster Plants—Giant branching, ostrich feathered type. **Comet Aster**, loose plants in bulk. **Price, 15c dozen**; potted plants, **5c each, 50c dozen**; in baskets each, **35c per basket of dozen mixed colors or straight of either**.

Canna Plants—Potted plants, tall dwarf or medium, green foliage or bronzed leaf, orchid flowering in 4-inch pots, 3 to 4 leaves. **Price, 25c each, \$2.00 per dozen**. King Humbert, bronze foliage, **25c each, \$2.50 per dozen**.

Coleus Plants—For border work. Golden, green, red, black and variegated foliage. **Price, 2½-inch pots, 5c each, 50c per dozen**.

Daisy—Mrs. Saunders—Beautiful white double flowering daisy. Just a cluster of beautiful snow-white flowers from time bedded out until frost in the autumn. Blooms all the time from May till October. **Potted plants, price, 2½-in. plants 10c each, per dozen \$1.00; 4-in. plants, \$2.00 per dozen**.

Dusty Miller Plants—For foliage only; border plant of finest sort. **Price, 2½-inch pots, 5c each, 50c dozen**; 3-inch pot size, **\$1.00 doz.**

Geranium Plants—The Orb of Day, the grandest of all bedding plants. Double flowering, dark red, pink and white; potted plants only. **Price, 2½-inch pots, 10c each; \$1.00 dozen**; 3-inch pots, **15c each, \$1.50 dozen**; 4-inch pots, **20c each, \$2.00 dozen**; 5-inch pots, **25c each, \$2.75 dozen**.

Lobelia Plants—Easy culture, used in vases

and border; blue flower. **Price, 2½-inch pots, 5c each, 50c dozen**.

Pansy Plants—Mixed colors, finest French strains, large fluted flowering sort. **Price, potted, 2½-inch, 5c each; 50c dozen**. In baskets earth, per basket of dozen, **35c; in bulk per 100, \$2.00**.

Petunia Plants—Single large fringed flowering Italian strains, 2½-inch pots, **5c each, 50c dozen**. Double flowering sorts, **15c each, \$1.50 dozen**.

Lantana Plants—Creeping sort for hanging baskets and porch boxes; lavender flower, lilac tint; perpetual bloomer. **Price, 15c each, 2 for 25c; \$1.50 per dozen**.

Salvia Plants—Richest scarlet flower; finest of all bedding plants; long spikes of dazzling red, lasting all summer, until frost. **Price, 2½-inch pots, 60c dozen; 4-inch pots, \$1.50 dozen**; in baskets earth, **50c basket of dozen**.

Sprengerii (Emerald)—Feather foliage only; for porch boxes and hanging baskets. **Price, 2½-inch, 10c each; \$1.00 dozen**; 3-inch pots, **15c each; \$1.50 dozen**.

Verbena Plants—Single plants of this pretty annual creeper will carpet a space 8 to 10 inches in diameter with neat foliage and scores of fine flowers. **Price, all colors, 2½-inch pots, 5c; dozen, 50c**.

Vinca Vines—For foliage only; variegated and green; hanging baskets and porch boxes. **Price, 2½-inch pots, 10c each; \$1.00 dozen**.

Vegetable Plants

We grow large quantities of Vegetable Plants and Roots, and can supply all the varieties listed below in their proper season. Well grown and packed to carry a long distance, they can be shipped from the beds on a day's notice. **All prices subject to change.**

Cabbage Plants—Transplanted plants, early sorts, ready April 25; late sorts ready May 20. Per dozen **15c**, per 100 **75c**, per 1,000, **\$5.00**. Seedling plants cheaper.

Cauliflower Plants—Early Snowball and second early, transplanted plants, **25c dozen; \$1.50 per 100**.

Celery Plants—Ready May 20. Early White Plume, Golden Self Blanching and Pascal. Per dozen **10c**, per 100 **50c**.

Egg Plants—In pots or growing in basket of earth only; potted, **60c dozen**; basket earth **50c**.

Pepper Plants—Bull Nose and Chinese Giant in bulk, **15c dozen**; in basket earth growing, per dozen, **35c; per 100, \$1.50**.

Sweet Potato Plants—Ready about May 20. Yellow Jersey plants. Per 100 plants, **50c**; per 500, **\$2.00**; per 1,000, **\$3.50**.

Parsley Plants—In basket earth, **35c per basket of 12**.

Tomato Plants

Tomato Plants—Dwarf Champion. (Tree). May 1st. Potted plants, **5c each; 50c per dozen**; Earliana and other leading sorts, 1 dozen growing in basket earth, **25c basket**.

Transplanted Plants—Loose in bulk. Dozen, **15c**; per 100, **75c**; per 1,000, **\$6.00**.

Seedling Plants—50c per 100; \$3.00 per 1,000, all when ready.

Vegetable Roots

Asparagus Roots—Crowns should be set early in spring or late in fall. Columbian White or Conover's Colossal, 2-year, per dozen roots, **25c**; per 50, **75c**; per 100, **\$1.00**.

Rhubarb or Pie Plant (Wine Plant)—Roots can be planted either fall or spring. Choicest large sorts, roots, **5c each; 50c dozen**; per 100, **\$3.00**.

Horse Radish—Large roots **5c**; per dozen, **25c**. Special price in quantity.



Peony Hedge in Bloom.

Peonies

Peonies—These big hearted flowers are as much liked by us today as they were by our grandfathers a century ago. Peonies will grow and do well anywhere pieplant will grow. Give them a deep, rich soil, plenty of barnyard manure, or better still, manure from the hen house, and they will repay you one-hundred fold. The Peony, once planted, will last a generation and grow better every year. They are perfectly hardy and need no winter protection whatever. We handle only the best varieties adapted for the Northern climate, and guarantee our stock to be equal to any in the Northwest. Plant in deep, rich soil.

Festiva Maxima

Festiva Maxima Peony—Is the queen of all. The acme of perfection, with every point of excellence. Without exception the plant itself is one of the **hardest**, most **robust** and **powerful** growers of the entire list of **Peonies**. The flower, a glorious form of purest white, combines great size with wondrous beauty. Often several inches across, and flecked here and there with a speck of crimson, which seems to bring out the white in clearer relief. The flower seems to have reached the ultimate, beyond which we cannot go in its further perfection. **Price, each 75c; two for \$1.25.**

Grandiflora Alba—A strong, robust, vigorous plant with good stems and large, fragrant flowers. Sulphur center, tinge of crimson on opening, soon changing; intense snowy white. **Price, 25c each; 3 for 60c.**

L'Esperance—Exceedingly fine, vivid rose-colored flowers, high, full center, very compact, early and free blooming, highly perfumed. The best rose-colored paeony. **Price, 25c each; dozen, \$2.50.**

Golden Harvest—Very striking, large, tri-colored blooms; guard-petals bluish pink; center creamy bluish-white. **Price, 40c each; 3 for \$1.00.**

Andre Lauries (Crousse) (Formerly sold as **Fragrans**)—Late Anemone shaped flower of a violaceous rose color, indispensable, tall,

late prolific bloomer. **Price, 25c each; 3 for 60c.**

Nigra (Grandiflora Rubra)—Extra large, perfect balls of blood red, magnificent flowers. Probably the largest paeony in existence. Given good, rich soil the flowers will be immense in size, often eight to nine inches across, and so double as to appear like perfect balls. A massive late-blooming, superb variety. **Price, 35c each; 3 for \$1.00.**

Pottsil—Dark silky crimson, yellow stamens showing through the flowers; blossoms early. **Price, each, 40c; 2 for 70c.**

Mixed Paeonies—Our Mixed Paeonies are made up of broken lots of our very best named varieties, some of which are worth five times the price we ask for them. **Price, 15c each; 6 for 75c.**

Lilies

Lilies are easily grown and require little care. They do best in a light, well-drained soil. Some peat or leaf-mold may be used to advantage. They also prefer partial shade, and the taller sorts must have protection from high winds. **L. auratum** cannot bear manure, but thrives in ordinary light soil.

Brownii Lily—Flowers of immense size, creamy white inside, shaded chocolate-purple outside. A splendid pot-plant. **Price, 65c each; 3 for \$1.75.**

Auratum Lillum—(Golden-banded Lily)—The grandest of all hardy Lilies; flowers white, spotted with maroon, having a bright yellow band through each petal. **Price, 20c each; dozen, \$2.00.**

Auratum Pictum (Lily)—Beautifully spotted dark crimson, 8 to 10 inches. **Price, each 15c; dozen \$1.50.**

Auratum Rubrum (Lily)—Enormous flowers, sometimes measuring 10 inches across; pure white, beautifully spotted and with a deep crimson stripe through center of each petal; very fragrant. **Price, each 15c; dozen, \$1.50.**

Tigridias Lily—These very handsome summer-flowering bulbs should be planted in the

spring. They will flower profusely all summer. The plants grow about 2 feet high, with large and finely colored flowers. **Price, 10c each; \$1.00 dozen.**

Lillum Candidum (Madonna, or Annunciation Lily)—This is one of the oldest, loveliest and best known Lilies. The flowers, of which there are three to twenty on each stem, are **snow-white**, with heavy yellow stamens and of the most delightful fragrance. It is hardy, and will thrive in any ordinary garden soil, preferring a position where it can get plenty of light and air. Blooms in the open ground about June 20. **Price, 10c each; \$1.00 per dozen.**

Lily Funkia—The bell-shaped bluish lavender flowers are produced on a flower stock three to four feet high. **Price, each, 15c; dozen, \$1.50.**

Alfalfa, Clover and Grasses

The Clover and Grass Seed we handle are clean and free of all foul and obnoxious weed seed. We invite everyone interested to call and inspect our stocks before buying elsewhere.

Remember, all prices named on these seeds are subject to market changes always. Ask for samples and special prices on your needs. Grain bags, extra, 25c each. Come, be friendly and give us a call.



Gathering Alfalfa near Roanoke, Va.

Native Alfalfa—Non-Irrigated

This grand clover forage plant is now a success everywhere. Every farmer has either heard of or knows its worth and merit. The plant grows, thrives and does well on any of our rolling prairies or well-drained bottom lands. The vigorous roots, searching for moisture, sink deep into the ground, bringing to the surface the fertilizing materials stored in the earth for ages while through the bacterial organism inhabiting the nodules on the roots of the plant alfalfa is enabled to utilize the atmospheric nitrogen of the air, thus leaving the land richer and better for succeeding crops than when first sown. Three crops are often cut in one season, and from four to eight tons of excellent hay is the annual reward. As a pasture it unfolds like magic with the first smile of spring, a velvet of green the entire summer through, lasting late into the fall and early winter. The young plants are tender; the seed should not be sown till the frost has left and the ground is warm. One bushel of 60 lbs. will sow three acres. It should not be cropped or pastured the first year. Can be planted with a light nurse crop of barley, speltz or wheat.

The stock we handle is the very best of hardy Northern-grown seed. We offer at present some choice Native-grown non-irrigated Northern-grown seed, Fancy Superfine quality, at \$7.50 to \$8.00 per bushel (subject to market change). Good seed makes good crops. Buy only our Superfine quality.

Turkestan Alfalfa

Our seed is imported direct from the cold Northern country of Asiatic Turkestan, on the Siberian plains of Russia. Recommended by the U. S. Government Department of Agriculture for years as the hardest strain of this great forage plant to be found anywhere on Mother Earth, and we have the seed carried 500 miles on camels' backs by the people living there to the nearest rail-

road station. We offer this seed for sale, true and tried, 99 per cent purity, highest germination. Price, \$8.00 per bushel. Superfine quality.

Grimm and Baltic Alfalfa, noted for hardiness, are nothing more than strains of this Turkestan Alfalfa tested in this country from the mother stock. Prices on these made on application.

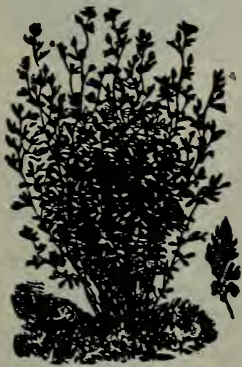
Sweet Clover

The plant of this legume grows over a wide extent of latitude, and under all kinds of climatic conditions. It thrives, grows and does well in any soil; the sandy soil of the plains; the acid soil of the East, the alkali basins of the West, in the cold North or the torrid South.

Sweet Clover is known by several names, viz.: Bokhara, Tree-Clover, Giant Alfalfa and Honey Lotus. There are four kinds, White, Yellow and Blue Flowering, biennial varieties, and the Yellow Flowering annual variety. The White Flowering biennial is preferred to all others because it grows taller, makes a more powerful root growth and produces more forage. This White Flowering kind grows from 5 to 12 feet tall, whilst the other biennial kinds, Yellow and Blue Flowering, grow only 3 to 6 feet tall. The little Yellow Flowering annual kind is of but little or no consequence.

Like Alfalfa and other legumes, all the various varieties are fertilizers, because Nitrogen gathering bacteria infest the roots. Whilst none are to be condemned, the White Flowering biennial (Melilotus Alba) being preferred, is the one we are interested to elaborate on in particular. It can be planted very early in the springtime with or without a nurse crop. Its first year's growth is 2 or 3 feet, with luxuriant foliage of stems and leaves, producing at the same time a heavy, long root growth of 2 to 4 feet. The first year's crop for hay should be cut in the latter part of the summer or early fall. It can be cut close without injury to the plant. The second year's crop for first cutting should be cut high for hay, not later than the first appearance of the blossom. It may be used after the first cutting for pasture purposes, or left grow for another cutting which can be cut again late in the fall.

At the end of the second year your Sweet Clover, (Melilotus Alba) will be gone unless you have taken pains to reseed or let it blossom for reseeding, for, as before stated, it is only a biennial. Price and Sample on application.



Alfalfa

To Successfully Grow Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and other Legumes, to increase the yield, and to improve the soil, use

The Mulford Nitro-Germ

Scientifically Prepared and Tested—Small Cost—Large Returns—Easy to Use—No Labor Expense

The Mulford Nitro-Germ is prepared and tested by experts in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A., with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.



Uninoculated Alfalfa Inoculated

Planted September, 1912, photographed (same scale) April, 1913. Plant on left not inoculated; plant on right inoculated with **The Mulford Nitro-Germ**. All other conditions identical. Contrast speaks for itself.



Red Clover

This grass, though but an annual in this climate, produces such great results that in a very short time after the seed is sown it makes as fine a pasture as other grasses of long standing. It grows about 2 to 3 feet high. The leaves are very dark green with a rich tint to the blade. It makes a pasture quick as oats, wheat, barley or rye would, and being a grass, is of far greater value. It makes a splendid winter pasture if left to cure on the ground. Price, per pound 15c, per bushel \$1.25, 10 bushels \$10.00. Plant one bushel per acre.

Crested Dog Tail

Crested Dog's Tail (*Cynosurus Crislatulus*)—Should enter in moderate quantity in permanent pasture and lawn mixtures. It does well in the shade, roots deeply, is stoloniferous and perennial. Valuable in mixture for lawns, putting greens, and for pasture. If sown alone 30 pounds should be used per acre. Price, pound 35c, 10 pounds \$3.00.

Prices

The Mulford Nitro-Germ is supplied for the varieties of legumes indicated, at the following prices:
Garden Size (about $\frac{1}{4}$ acre) **\$0.50**
One Acre Size **2.00**
Five Acres Size **9.00**

(Not returnable)

Special prices on lots of twenty-five acres or more on one order, either of one kind or assorted.



Nitrogin

Nitrogin

Nitrogin, like **Nitro-Germ**, is bacteria put up in another form, which inoculates Clover, Alfalfa and all kinds of legumes. "Nitrogin" is put up in one-acre and five-acre cans, and sells for only \$2.00 an acre.

A still further form of preserving nitrogen gathering bacteria for inoculating leguminous plants.

Prices of Farmogerm

Sample package of all Bacteria.....\$0.50
 Half-acre package of all Bacteria......75
 One-acre package.....1.50
 Five-acre package.....5.00

Specify always the kind of seed to be inoculated. Write today for free booklet giving valuable information regarding the nitrogen-fixing bacteria.

Medium Red Clover. This is by far the most important of all the varieties for practical purposes.

Sow in spring or fall, and if no other grasses are used, at the rate of 15 pounds per acre; more is used on old soil than on new. Price, per pound, 20c, per bushel \$9.50 to \$10.50. Prices subject to change.

Mammoth Red or Sapling (*Trifolium pratense*). Similar to Red Clover, but coarser, taller and more hardy. Sow from 12 to 15 pounds per acre. Price, pound, 20c, bushel, \$10.50.

Alsike or Swedish Clover. The most hardy of all clover. On rich, moist soil it yields an enormous quantity of hay or pasture, but its greatest value is for sowing with other clover and grasses, as it forms a thick bottom and greatly increases the yield. Sow in spring or fall at the rate of 10 pounds per acre when used alone. Price, per pound 25c, fancy seed, per bushel \$10.00 to \$12.00. Price subject to change.

White Clover. A small perennial variety, valuable for pasture and for lawns. It accommodates itself to a variety of soils, and can be grown anywhere. Can be used to great advantage in pasture mixtures. Sow in spring at rate of 8 to 10 pounds per acre, or when used with other grasses half that amount. Price, per pound 40c, per $\frac{1}{4}$ bushel \$5.00, per bushel \$18.00. Prices subject to market change.

Italian Rye Grass

This grass, though but an annual in this climate, produces such great results that in a very short time after the seed is sown it makes as fine a pasture as other grasses of long standing. It grows about 2 to 3 feet high. The leaves are very dark green with a rich tint to the blade. It makes a pasture quick as oats, wheat, barley or rye would, and being a grass, is of far greater value. It makes a splendid winter pasture if left to cure on the ground. Price, per pound 15c, per bushel \$1.25, 10 bushels \$10.00. Plant one bushel per acre.

Bromus Inermis

(Awnless Brome Grass.)

A hardy perennial standing extremes of heat, cold and drouth better than any other of our cultivated grasses. Is especially adapted to the Northwest. It grows with great rapidity and produces heavy hay crops and luxuriant pastures. All kinds of stock eat it greedily, and the analyses made show that it is exceedingly rich in flesh-forming ingredients. Sow about 15 to 20 pounds to the acre. Price, choice Dakota grown seed, per pound 15c, per bushel \$1.60 to \$1.75, per 100 pounds \$12.00, subject to market change. Will make you a very close price on big lots.

Kentucky Blue Grass

The universal pasture grass of America and the finest lawn grass in the world is our own Kentucky Blue Grass.

It starts like magic with the first smile of spring and is a velvet green until winter comes. It can be grown on the wild

Bromus Inermis Grass

prairie and will catch, but the best results are to be had by getting the seed well mixed with the soil. The seed we offer comes direct from Kentucky in ear lots, and is fresh, clean and pure. Sold at rate of 14 pounds per bushel. For field seeding

Gravity Quality Standard, price, per pound, 20c; half bushel, \$1.25; bushel, \$2.00; in 8-bushel bag, \$13.50. For lawn culture, double gravity our Purity Brand, 100 per cent pure, highest germination. Price, per pound, 25c; 5 pounds, \$1.25; 10 pounds, \$2.40; 100 pounds, \$20.00. All prices subject to change.

English Blue Grass

In just a few years this grass has come to the front like magic. This is due to the fact that it is a success everywhere, on all kinds of land and never freezes out. It comes early in the spring, is green all summer and lasts until late autumn. It's an early quick crop, and a nutritious pasture grass. It's a perennial, 2 to 3 feet high and heads out in June. We unhesitatingly recommend it to every farmer. Price, best seed, per pound 15c, 14 pounds \$1.75. About 15 pounds per acre. Special price on quantity.

Italian Rye Grass

Orchard Grass

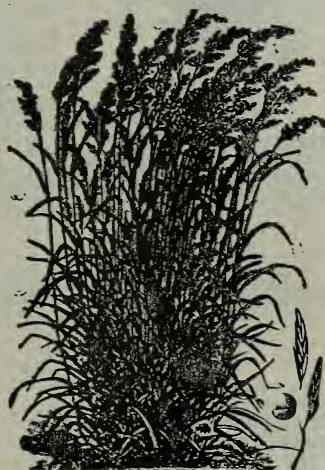
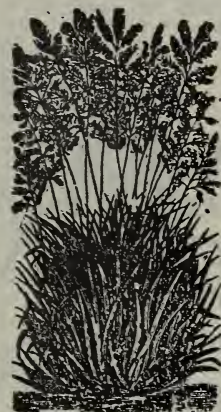
Orchard Grass—This grass does well everywhere, and for hay can be cut much earlier than timothy. Succeeds the best of grasses in timbered lands or orchards. Sow one to two bushels per acre. Price, best seeds, \$2.50 per bushel, subject to market changes.

Timothy—This well-known grass is the best of all grasses for hay. Succeeds very well on all kinds of soil, but is well adapted to moderately moist land. Should be cut just when the blossom begins to fall. Can be sown in spring or fall. One bushel sows 3 acres. Is used in mixture with clover and other grasses to good advantage. Price per bushel, \$2.25 to \$2.50, subject to market change. Bag extra, 25c.

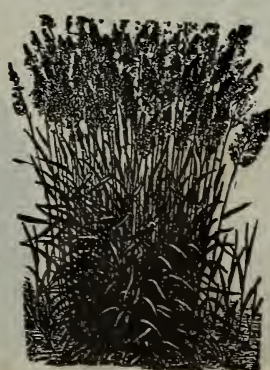
Red Top—This grass is especially suited to low, wet, spouty lands; is, in fact, the only grass which is a real success on such soil. Stands our Northern winters, can be sown on

wet land without cultivation, and will catch. Into the wet soil it spreads its network of roots, tames the land and in a few years makes a deep, substantial sod. The seed often comes in the chaff, but the only thing to plant is the solid seed, clean from chaff. Sow 10 pounds per acre. We quote best, solid seed, very best, per pound 25c, 10 pounds \$2.60, 100 pounds \$25.00; prices subject to market changes. Special price on large lots. Bags extra, 25c each.

Red, or Creeping Fescue (Fescuta Rubra)—Forms a close, rich sod and is valuable in lawns and should be in shade mixtures. Makes a close, lasting turf on dry, sandy soils, and can be used to bind dry banks. Also an excellent bottom grass for moist mixture. Price, pound 40c, 10 pounds \$3.50.



Timothy



English Blue Grass

Red Top

Dwarf Essex Rape

Rape as a pasture for cattle, hogs and sheep, is unequalled by any other plant. It can be planted with the spring crop, and is ready for pasture when the crop is gathered.

Sow four to five pounds to the acre. **Price, 13 pounds \$1.00.** Special price on 100-pound lots.

Sugar Cane for Fodder

The greatest of all forage and fodder plants. It will yield two crops of fodder and a good fall pasture in one season. Roots deep into the subsoil and stands the drouths that often destroy other crops. As a rough provender it is unsurpassed. Sow 1 to 2 bushels per acre. **Price on application. Bags extra, 25c.** Special prices in quantity.

German Millet

Of all the different kinds of grasses and forage plants raised for either hay or pasture, Millet is the most widely known and extensively used. If drouths wither or rains and floods drown out and destroy the early-planted fields of grain, Millet is the farmer's next resort. The pure German Millet, of all the well-known kinds, is by far the most valuable. This well-known sort reaches the acme of perfection in the more Southern states, and it is a fact that when the Southern-grown seed is planted in the North it produces a taller stalk and heavier growth of foliage than can possibly be raised from



German Millet

our own Northern-grown seed. It is the judgment of those who have tried the seed from both sections, side by side, the planter had better pay \$2.00 per bushel for pure, Southern-grown German Millet than to have the



Sugar Cane

other as a gift. Plant three-fourths bushel per acre. Pure Southern-grown Millet, bushel, \$1.50; Tennessee-grown Millet, bushel \$2.50; Home-grown Millet, bushel \$1.25, subject to market change. Bags extra 25c each.

Field Seeds

We handle a full line of Field Seeds, such as Flax Seed, Barley, Wheat, Rye, Speltz, Buckwheat, etc. Price and samples on application.

Potatoes

Irish Cobbler Potato. One of the most valuable first early potatoes. Very productive, globular in form, uniform in size, pure white. **Price, per bushel 50c, 1/2 bu. \$1.00, bushel \$1.75.**

Red River Triumph. The Triumph is the earliest of all varieties, and is the leading early potato all through the South. The tubers are nearly round, smooth, medium in size, reddish pink in color. **Price, per 1/2 bushel \$1.00, per bushel \$1.75.**

Rural New Yorker No. 2. The standard white market potato. It is very large, usually smooth, oblong, inclining to round, and rather flattened. Skin and flesh white. **Price, 1/2 bushel 75c, bushel \$1.35.**

Sir Walter Raleigh. King of late potatoes. This is an improved Rural New Yorker No. 2. Yields almost all marketable sized potatoes, which are a little earlier and of better quality than Rural. Fine grained and white fleshed. **Price, 1/2 bushel \$1.00, bushel \$1.50.**

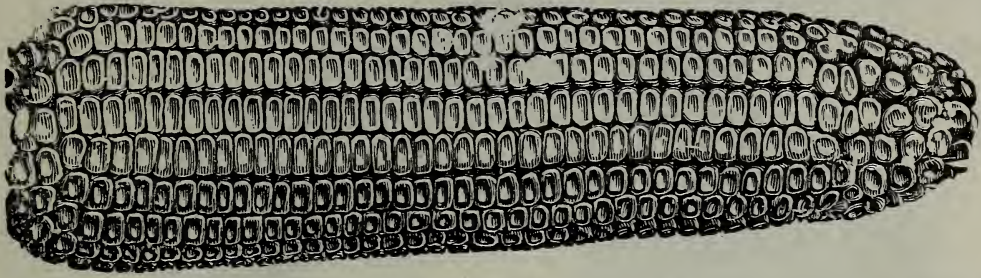


Red River Early Ohio

Red River Early Ohio. The stock of Early Ohio we offer is grown in the Red River Valley of the North. They are from 10 to 15 days to two weeks earlier than common stock; are pure and free from scab, and were raised especially for seed. If you want something pure, something earlier than anything else, don't fail to get a few bushels of these choice earlier. **Price, per peck, 50c; 1/2 bushel 75c, bushel \$1.25.**

TIPPED
SELECTED

Seed Corn

TESTED AND
GRADED

Our seed corn is **grown here** in the North, acclimated, selected and tested. We give no guarantee of crop, either expressed or implied, or guarantee of any kind, but if anyone wishes to test our seed corn **before planting** and is not satisfied with the test, he can return the seed and get his money back.

Michael's Early Murdock

Michael's Early Murdock. A beautiful Yellow Dent variety, well adapted on account of its extreme earliness, to Southern Minnesota, South Dakota and the Northwest Corn Belt Section. It was bred up in Wisconsin by careful selection. The ears have well filled out tips, 16 to 20 rows, and very compact on the cob, something like Reid's Yellow Dent, fairly smooth on the outer edge and uniformly a rich yellow. The stalks medium in height, stout and stocky, with ears borne at a regular, uniform distance from the ground. It is a ninety-day variety, as early as Pride of the North, larger ears, and as a cropper compared to that old, well-known sort, has double the yield. **Sample on application.** Price for selected seed shelled, per bushel, \$2.00; 5 bushels, \$9.00; on the ear in bushel crates, per crate, \$3.00; 12 type ears, \$1.00; one select type ear (by mail), 25c.

Silver King

Silver King has almost revolutionized corn growing in Southern Minnesota, South Dakota and Northern Iowa. It will yield more bushels of fine corn than any other Dent variety.

Description. Ears averaging 8 to 9 inches, always filled out clear to the tips, and very uniform in size and type. The corn is pure snow-white in color with good length kernels set compactly in straight rows. The corn is a strong grower, early enough to mature as far north as Oshkosh, Wisconsin, and is especially adapted to resist cold weather. It has a decided double-ear characteristic, one reason for its fine yield records. Prices of Silver King Corn: Pk., 75c; bu., \$2.25; 2½ bu., \$5.00.

Iowa Silvermine

Iowa Silver Mine. This is more generally grown throughout the corn belt and more widely and favorably known than any other white corn. It is a sure cropper, middling

early, deep-grained, pure white, and a good corn in every way. **Price, per bu., shelled, \$2.00; 5 bu., \$9.00.**

The Improved Leaming

The Improved Leaming. The Improved Leaming corn is a medium early yellow variety; large, slightly tapering ears, good grain, and medium sized red cob. It is one of the seven varieties recognized by the Illinois Experiment Station, where it has been first in yield more times than any other variety in "test of varieties." **Price, per bushel, \$2.00, shelled.**

Reid's Yellow Dent

Reid's Yellow Dent. This corn is light golden in color. The ears are 9 to 11 inches long; 18 to 24 rows of kernels, each containing 50 to 60 kernels. The cob is completely covered with solid corn. The kernels are moderately rough, rather narrow, medium in thickness, knit very closely together, with no lost space between the rows, and of all corn this is easiest to shuck. **Price, shelled, per bushel, \$2.00; on ear, per bushel crated, \$3.50.**

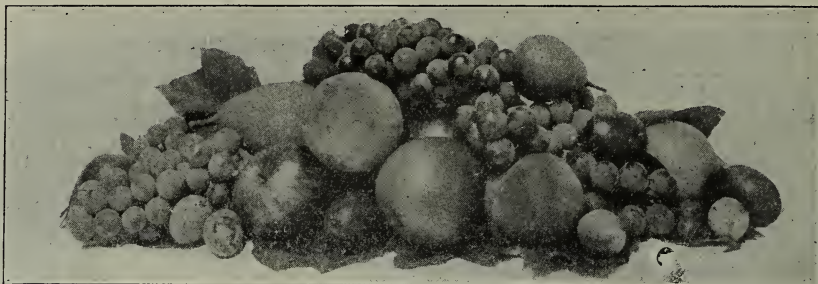
Smut Nose Flint

Smut Nose Flint (8-rowed). A yellow flint corn blazed with red at end of ear. This is a very early variety, and a great favorite in many localities. Average length of ear 10 inches. Average height of stalk, 7 feet 6 inches; average distance base of ear from ground, 2 feet 11 inches. **Price, bushel, \$2.25.**

White Rice Popcorn

White Rice Pop Corn. A very fine white variety; kernel clear white, long and pointed at the top, sloping toward tip of ear. It is very desirable for family use, popping out very large and tender. **Price, on ear for seed purposes, per lb., 10c.**

Nursery Department

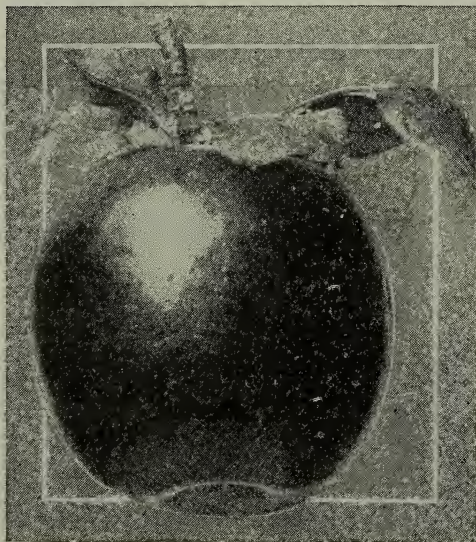


Fruit Trees, Small Fruits, Grape Vines, Strawberries, Etc.

IMPORTANT TO PROSPECTIVE CUSTOMERS OF ROOTS, BULBS, PLANTS, NURSERY STOCK, ETC.

We are now housed in our new large concrete building and have better facilities for handling and packing Roots, Plants, Bulbs and Nursery Stock than most nurserymen can boast of.

We handle only such **kinds and varieties** of trees, shrubs and plants as grow here and stand this climate. Stock strong, true to name, dug when wanted and roots carefully packed in wet moss for shipping.



Wealthy Apple.

Summer Apples

Duchess. Large size, productive and very hardy; quite showy; very tart and a good cooker. As it attains age it makes a fine strong orchard tree. The fruit ripens the middle of August and is good for cooking from the time it is half grown, which prolongs its season considerably.

Okabena. Vigorous, absolutely hardy and an ideal orchard tree in every respect. Bears very young. Fruit medium to large; yellow, striped and splashed with carmine; flavor sprightly sub-acid; quality excellent. Ripens after Duchess and valuable in market on that account.

Fall Apples

Wealthy. A seedling originated in Minnesota; very hardy; an abundant and early bearer; fruit large, dark crimson; flesh crisp,

PRICES: These prices are for selected, hardy trees that grow and bear fruit. We quote and handle only one grade and that's the best. Apple and Crab, standard varieties, extra select trees, 5 to 6 feet, each, 35c; per 10, \$3.00; per 100, \$20.00.

sub-acid, white tinged with red; good quality. Tree a fine, upright grower, both in the nursery and orchard. Season, October to December.

Patten's Greening. Originated from seed of the Duchess. Fruit about the same size and shape, but greenish in color. A fair eating and excellent cooking apple. Makes a fine spreading orchard tree. A strong grower. Season, October to December.

Winter Apples

Peerless. Tree a very fine straight upright grower. Originated from seed of Duchess, near Fairbault, Minn. It is quite hardy and productive; fruit medium size, of a pleasing sub-acid flavor; color red on a yellow-greenish ground; stem short and hangs on tree well; perfectly hardy here, but a rather shy bearer.

Ben Davis. A tree highly esteemed in the West. Fruit conically shaped, striped and of fair quality, juicy and sub-acid; very productive, quite hardy here, but should not be planted much farther north. Season, December to February.

Northwestern Greening. Tree of Wisconsin origin; an extremely fine shaped, good growing tree in the orchard. Fruit large and greenish yellow; good quality. It is claimed to keep well until June. Tree is quite hardy but will not succeed as far north as the Wealthy; very promising.

Jonathan. Most popular of all. Large, deep red. Rich flavor, juicy and sweet.

Crab Apples

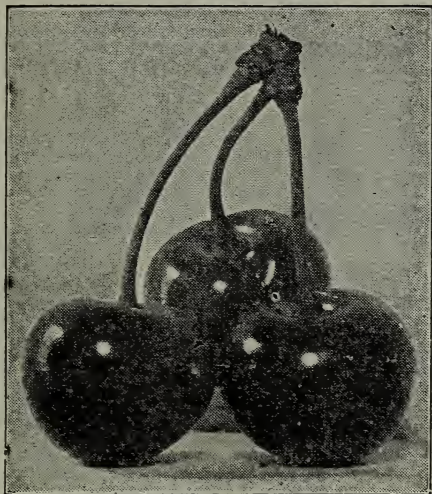
The Florence Crab. The most valuable crab ever fruited here. Annual bearers, usually fruiting the second season after planting. Early, large, beautiful, excellent, youngest bearer, most prolific of all. The crab to plant in small space. Six feet is ample. Hardest and most ornamental tree we grow. **Exempt from blight.**

Soulard or Wild Crab. Tree quite hardy and a good sturdy grower of the wild crab type. Fruit yellowish green.

Siberian Crab. Fruit small, round and grows in clusters. Very acid, fruits young and abundantly. Of extreme hardness.

Cherries

The Cherry is the most valuable of all fruit trees for the Northwest; perfectly hardy, grows and thrives well on any of our soil. An annual bearer; ornamental as well as valuable. Hardest varieties.



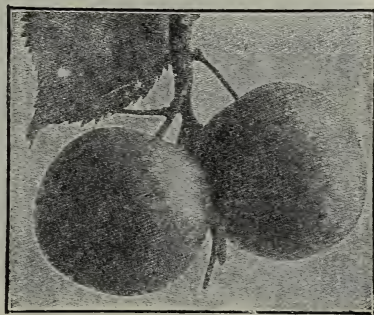
Early Richmond.

English Morello—Trees very hardy and great bearer; the most valuable of the late varieties. Fruit large, round; skin dark red, becoming nearly black when fully ripe; pleasant sub-acid flavor when fully ripe. Season, July and August.

Early Richmond—An early red acid cherry, very valuable for cooking. Tree a free

grower, hardy, healthy and very productive. It is the leading market variety for this section. Ripens in June.

Large Montmorency—Large red acid cherry; is larger than Early Richmond and about ten days later. A superior sort for home use.



Compass Cherry.

Compass Cherry Plum. Absolutely hardy everywhere. Originated in Minnesota. A cross between the Sand Cherry and the Plum. Fruit a bright red, sweet and juicy, and of very fine flavor. The tree is a regular and heavy bearer, and produces fruit the next year after setting out. Its early bearing is truly wonderful. Price, 1-year-old, 35c, 2-year-old 50c.

PRICES: Cherry, standard varieties, very select picked trees, 5 to 6 foot. Each, 50c; per doz., \$5.00; per 100, \$35.00.

Plums

A List of Thoroughly Tested American, European and Japanese Varieties

The Plum Tree attains its greatest perfection on our heavy soils, being entirely free from disease. Plums are very hardy and grow vigorously in all sections.



Burbank Plum

Burbank's Japanese Plum—One of the most popular. Fruit conical and very large. Color, dark, metallic red. Flesh, yellow, firm and juicy; flavor rich and sugary.

PRICES: These prices are for selected, hardy trees that grow and bear fruit: Plum, standard varieties, native or Japanese, extra select, 5 to 6 feet, 50c each; per 10, \$4.00; per 100, \$32.00.

Abundance—Fruit large and roundish, a rich cherry color, with a whitish bloom. Flesh, light yellow.

In a general way we recommend the planting of plum trees on native stocks. They are safer in the North, and we will put them in for Northern planters unless otherwise directed.

De Soto—Tree is extremely hardy. It comes into bearing young and bears so heavily as to retard growth of tree. It is an annual bearer. Fruit good size and quality. Color red at full maturity. Ripens in August.

Forest Garden—A strong-growing tree, needs a little attention to keep tree in shape to avoid splitting and breaking of limbs. A profuse bearer and perfectly hardy; nearly round, mottled red, rich and sweet; ripens early in August.

Wolf—Tree is a very good grower, making a very fine orchard tree. Fruit about the size of the De Soto. A perfect freestone. A very profitable sort and extremely hardy. Ripens late in August.

Miner—Tree a very strong, vigorous grower. Fruit large, deep red and of good quality. A valuable variety to raise. Fruit ripens late.

Currants

Hardy, easily cultivated, standing neglect well, and liberally responsive to cultivation and generous treatment; indispensable for table use, jellies, etc. No garden is complete without them. Set four feet apart in rich ground. If the currant worm appears, dust with hellebore. All 2-year plants well rooted and strong.

Fays—Very large, bright red, a great bearer. Easy to pick. Excellent for jelly, jam, etc.

Red Dutch—Well-known old variety; very productive; excellent quality.

White—A white Currant. Berries large, very productive. Sweet and mild, excellent for table use.

Black Champion—The leading well-tested black currant. Very productive. Excellent quality, strong grower.

Price, 2-year, No. 1, 10c each, \$1.00 for 12, \$6.50 per 100.

Gooseberries



Should be planted in a good, rich soil and well manured once a year. Even more rugged and easier grown than Currants. Do not let bushes grow too thick; the fruit will be larger and more plentiful.

Downing—Large, light green; soft, tender, good flavor; extremely vigorous, hardy and prolific.

Houghton—Most productive. Best payer of all. Yield easily 700 bushels per acre. Fruit excellent quality.

Price, 2-year, each 15c, per dozen \$2.00.

Grapes

No part of the fruit garden yields a richer harvest than the vineyard.

Concord—Early; decidedly the most popular grape in America. Flesh juicy, sweet, tender. Color, dark blue.

Worden—Bunch large, berries very large. Ripens 5 to 10 days earlier than the Concord.

Moore's Early—Berries extremely large. Produces heavy crops. Ripens 15 days before the Concord.

Beta—A hybrid of wild grape, probably crossed with Janesville, having same hardiness and general qualities of the wild grape. Has perfect flowers, may be depended upon to bear fruit when properly trained.

Niagara—Color pale yellow when fully ripe, sweet and of splendid quality. Remarkably vigorous and productive. Most valuable white grape. Ripens with the Concord.

Prices — **Black**: Hardy, 2-year, each 15c; per dozen \$1.25. **White**: Hardy, 2-year, each 15c, per dozen \$1.25.

Blackberries

Snyder—One of the best. Berries juicy and sweet. Large and productive.

Ancient Briton—Another hardy variety. Ripens after the Snyder.

Price, strong roots, 5c each, 50c per doz., \$3.00 per 100.

Bartel's Dewberry is hardier than any blackberry in any dry or cold climate—a grand delicious fruit. Price, 12 for 75c.

Raspberries

Plant four feet apart each way.

Cuthbert—Red. Strong and hardy. Berries large, excellent quality. One of the best.

King—Black Cap. A valuable variety. Extra-hardy; berries large. A good shipper.

Price, strong roots, 5c each, 50c per doz., \$2.50 per 100.

Strawberry Plants

The first fruit to ripen in the spring, its tempting appearance, delicious taste, and wholesomeness as a diet, have made them universally popular. It has been aptly named the "Queen of Small Fruits." The plants marked (P) are pistillate and those marked (S) are staminate; (B) is for bi-sexual.

Plants should be planted as soon as possible after digging.

Strawberries will succeed in any soil that is thoroughly prepared to a good depth. For field culture set in rows 3 to 3½ feet apart, 15 to 18 inches each way. To produce fine, large fruit, keep in hills, pinching runners off as soon as they appear.

Warfield (P)—Early. One of the

most popular varieties of Strawberries grown; large, top shaped berry, with a glossy red exterior that does not fade or become dull after picking; exceedingly juicy, just tart enough to make it delicious. Plant with two rows of Warfields, one of Dunlaps.

Senator Dunlap (B)—Medium to late. One of the most popular varieties known to the strawberry world. Dunlap is a product of large, handsome fruit, rich dark red, with a glossy finish, shaded to deep scarlet on the under side, and prominent bright yellow seeds that look like gold bronze. The foliage is tall, bright green, upright with a long leaf. Plant with Warfield.

Bederwood (S)—By some considered the very best early berry. Immensely productive. Healthy grower. Fruit large, bright red, excellent quality. For near market and home use this will be one of the most satisfactory. Excellent fertilizer for Warfield.

Prices Strawberry Plants—25 for 25c; 100 for 80c; 500 for \$2.75; 1,000 for \$5.00.



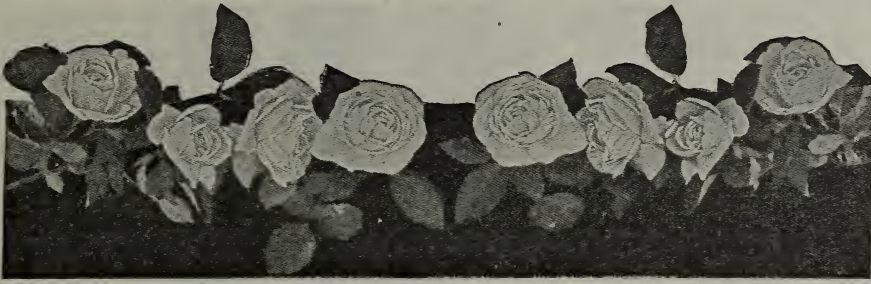
THE TWO
LEADERS:
WARFIELD
AND SENATOR
DUNLAP



Correct way of Planting Strawberry Plants

Roses

There Are Gems of Beauty Among Flowers More Dazzling Than Diamonds.



We handle nothing but the **very hardiest** varieties and the very finest bloomers. Many varieties are too tender for the Northwest. Hothouse roses are worthless for outdoor planting—ours are **field grown**, are **more easily transplanted**, and **hardier**. Before planting roses cut them back severely.

Mildew—Use Bordeaux Mixture as long as the disease continues. **Slugs**—Use Hellebore or Arsenic till destroyed. **Lice**—Use Kerosene Emulsion, apply until destroyed.

Everblooming Hybrid Roses

A desirable class of June Roses. Are supposed, under favorable conditions, to bloom from June until frost. The leading kinds, **General Jacq, Neyron, Wilder, American Beauty, Price 35c each. Baby Rambler and Coquette Als, 50c each.**

Ramblers and Climbing Roses

This specie Roses are those of long, willowy, twining habit of growth, which can be trained to twine about the porch or trellis. Leading sorts are the **Crimson Rambler, Sink Rambler, Dorothy Perkins, Bulb Belle, Seven**

Sisters, Queen Prairie and Flower of Fairfield. Large, 2-year roots, 35c each.

Summer Roses

The roses of this specie are the old-fashioned summer or spring bloomers. They flower profusely and their rich coloring is intense. The leaders are **Madam Plautier, snow white; Persian, yellow; Sweet Briar, bright pink; Rosa Rugosa, both red and white; and the Glory of Moss Roses, red; 35c each.**

Rosa Rugosa—Perfectly hardy, even on the most exposed locations, thrives in any kind of soil and needs no winter protection. **Price, red or white, 25c each.**

Ornamental Flowering Shrubs

Nothing adds more to the beauty of a place than to have the sides and background well filled with groups of shrubbery. Whether you have a lawn of many acres, or an humble dooryard, we commend this class of plants as indispensable to the real beauty of your home.

Lilacs—Do you love the lilac? If so, we have something rare and beautiful.

Persian Purple—Blooms very young..... **Each 25c**
Common Lilacs—Purple flowering **25c**
Lilac—White flowering **25c**

Tree Lilacs—Real trees—not shrubs. They grow 25 to 30 feet high; native of China; blooms in June; great spikes of pure white, honey-scented flowers; very hardy; **each, 50c.**

Spirea Van Houtte—Bridal Wreath—We can say positively this shrub is the most attractive lawn shrub known. Has white flowers, astonishingly profuse in blooming; very fine for cemeteries. **Price, 3-foot, each 30c; hedge size, per 100 \$10.00.**

Spirea—Anthony Waterer—The grand ornamental hedge shrub; grows about 2½ feet high; dwarf, compact bush; very hardy and blooms from June until frost; flowers deep crimson. **Price, each 30c, 3 for 75c, hedge size, per 100, \$10.00.**

Grandest Snowball—Japan Snowball, the Japanese variety of the old-fashioned snowball is one of the most valuable of our hardy shrubs. It blooms in a solid mass of large balls or flowers as white as snow. **Price, each, small size, 25c; medium size, 35c; large double clumps, 75c.**

Ornamental Deciduous Trees

Cut-leaf Weeping Birch—The most erect and graceful tree. It has a silvery bark and finely cut foliage. **Price, each \$1.50.**

Mulberry, Teas Weeping—The most graceful and hardy weeping tree in existence. Easy to transplant. Admirably adapted for small or large grounds, or for cemetery planting. **Price, each \$1.00.**

Hydrangea (Paniculata Grandiflora)—Large flowering Hydrangea, hardy. A fine shrub growing from 6 to 8 feet high. Flowers white in large pyramidal panicles, produced in August and September. **Price, each, 2 to 3 feet, 25c; 3 to 4 feet, 50c.**

Everblooming Hydrangea—Sometimes called **Everblooming Snowball**. This new American variety begins blooming in June and continues all season. Very easy of culture and hardy. **Price, choice young plants, each 35c; 3 for 75c.**

Flowering Crab (Bechtel's)—Makes a medium-sized tree; perfectly hardy, succeeds well in all soils. When in bloom appears to be covered with delicate pink, perfectly double small roses of delicious fragrance. **Price, 35c; 3 for \$1.00.**

Flowering Almond, Double Pink—One of the earliest and finest of shrubs. Loaded down with double pink flowers which attract attention. **Large, 50c each.**

Flowering Almond, Double White—Like above, but with snowy white flowers. **Large, 50c each.**

Syringa, Grandiflora (Mock Orange)—Is one of the strongest-growing varieties with large flowers. **Small, 25c each; large clumps, 50c each.**

Mountain Ash (European)—A fine hardy tree; head dense and regular. **Price, 5 to 6 feet, 50c.**

Babylonian Weeping Willow—Napoleon's Willow. (Salix.) A well-known tree of pendulous or weeping habit, with long slender olive green branches. **Price, each \$1.50.**

Plants for Hedges



A hedge to be pretty and effective must be very dense and well pruned.

Common Buckthorn—A hardy shrub extensively used in England and the Continent for live hedges. Is covered with pretty white blossoms in the spring and nice red berries in the fall. 18 to 24-inch, each 15c, per 100 \$12.00.

Barberry Thunbergi—Of dwarf graceful habit; foliage small, changing to beautiful red early in fall. Price, 18 to 24-inch, each 20c; per 100 \$15.00; 12 to 18-inch, each 15c, per 100 \$12.00.

Caragana Arborescens—A Siberian shrub that has found much favor in the Northwest where it is very hardy. It is especially adapted to the purposes of low screens for

either ornament or wind protection. It is a good variety for mixed planting in the forestry plot. Price, 2-foot, each 25c, 25 for \$3.50.

Privet—No plant has come more rapidly and deservedly into public favor. Is of vigorous growth, has glossy dark green foliage, keeping its color. Price, 18 to 24-inch, each 20c; per 100 \$10.00. Very late.

Russian Olive—Makes a medium sized, very hardy and beautiful tree. Foliage growth is silvery white. Very desirable for ornamental or hedge purposes. A rapid grower that pleases all who give it a trial. Price, 18 to 24-inch, each 5c; per 100 \$3.50; 3 to 4-foot, each 15c; per 100 \$12.00.

Climbing Vines

Hall's Japan Honeysuckle—The finest climber, beautiful, trumpet-shaped flowers, sweet scented; extremely hardy. 25c each.

Scarlet Trumpet Honeysuckle—Blossoms freely entire season, bright red flowers. 35c each, 2 for 60c.

Clematis—New Sweet-Scented Paniculata—Grows anywhere; very rapid grower and profuse bloomer; flowers pure white in large clusters; extremely hardy; bright green foliage and fragrant flowers. 2-inch potted plants sure to grow. In full foliage, 20c each; 3 for 50c; dozen, \$1.00.

Wild Grape Vine—Besides being fruit bearing a great viner and very hardy. Cultivated vines. Price, 25c each.

Dutchman's Pipe—A vigorous and rapid-growing climber, bearing singular brownish colored flowers, resembling in shape a pipe. Price 50c, large size 75c.

Englemanni—This is one of the finest climbers we have for covering walls, as it clings firmly to the smoothest surface, covering it closely with over-lapping foliage, giving it the appearance of being shingled with green leaves. Price, 2-year, 25c each; \$2.00 per 10.

Native Shade Trees

Below we give a list of trees that are hardy and can endure the dry weather of the West. These trees have been raised in the nursery, are well pruned and have good bodies and tops. All have been transplanted once and have therefore good roots.

Elm, Native American—A native of South Dakota and the entire Northwest. One of our best trees for general planting as a shade or street tree. Very hardy, endures cold, drouth, wind and general neglect. Price, 7 to 8-foot, 25c each; 10 to 12-foot, 50c each; large, 2½-inch, \$1.50 each.

Maple, Soft or White—A native tree. A very desirable tree if trimmed to keep down suckers and avoid forks which are liable to split. Its foliage is very beautiful. Price, 10 to 12-foot, 50c each.

Linden—A handsome lawn or shade tree. Grows quite rapidly in moist situations. The

blossom is very fragrant and sweet. Price, 7 to 8-foot, 50c each.

Sycamore—A lofty, wide-spreading tree, heart-shaped leaves, valuable for its handsome foliage and free growth. Not subject to disease. Makes a fine street tree. Price, 7 to 8-foot, 50c each.

Poplar, Carolina—A very rapid-growing, soft-wooded tree, resembling the Cottonwood, but has a larger leaf, and much thicker and more spreading top, denser and heavier foliage. Price, 8 to 10-foot, 50c each, 10 for \$3.00; 12 to 15-foot, 75c each.

Hardy Evergreens

Evergreens give a cheerful appearance to a home, especially during the winter months, shelter-belts around farm buildings or yards, a row or two is more effective than many deciduous trees. Evergreens, if properly handled, are as sure to live and grow as deciduous trees. We have a very excellent stock in all sizes this year, and we want to encourage a more general planting of this very useful class of trees.

The Blue Spruce—A Gem of the Rockies. We have given special attention to this beautiful evergreen, and we take special pride in calling your attention to this King of Conifers, the Blue Spruce.

Other trees there are of almost every imaginable color and form, but here is truly the culmination of Nature's highest effort to produce the beautiful. Koster Grafted. **Price, transplants, 18 in. to 2 ft., in ball earth, \$1.50; 2 ft. to 3 ft., in ball earth, \$2.50; seedlings, 6 to 8 in., per dozen, 60c.**

Nordman's Fir—A rare tree of remarkably symmetrical habit. Naturally forming a perfect pyramid, clothed with a dense mass of dark green foliage. Considered one of our finest Firs and a most satisfactory Evergreen for lawn planting. **Price, transplants, 2 to 3 ft., in ball earth, each, \$2.50; 18 to 24 in., in ball earth, each, \$1.50; seedlings, 6 to 8 in., per dozen, 60c.**

Douglas Fir—A Beautiful Rocky Mountain Variety—A variety from the Rocky Mountains, one of the most beautiful and valuable Evergreens. Has strong upright habit of growth, with beautiful soft green foliage upon long drooping branches. A rapid grower. Being perfectly hardy, enduring extreme heat as well as extreme cold. **Price, ½ to 3 ft., transplants, ball earth, \$1.00; 2 to 2½ ft., \$1.50; seedlings, 8 to 10 in., per dozen, 75c.**

Red Cedar (Juniperas)—Our Cedars are all raised from seed. They are very pretty, of dark green color, and will not turn red or brown in the winter as the eastern Red Cedar. They are exceedingly hardy, and will stand any amount of dry weather. The very best for windbreaks. **Price, transplants, 1½ to 2 ft., in ball earth, \$1.00; 2 to 3 ft., in ball earth, each, \$1.50; seedlings, 8 to 10 in., per dozen, 60c.**

Evergreen and Forest Tree Seedlings

By Mail, postpaid—14 packages of 100 each of the leading Evergreen Seedlings

PRICE, \$1.00 EACH, SIX FOR \$5.00

Trees for Woodlot, Hedges, Windbreaks and Lawn Planting.

These varieties are all those which have been thoroughly tested and are proven absolutely hardy and reliable and will grow successfully in all parts of the country.

1—100 Norway Spruce	2-yr. Seedlings
2—100 Scotch Pine	2-yr. Seedlings
3—25 Blue Spruce	2-yr. Seedlings
4—100 White Pine	2-yr. Seedlings
5—100 Douglas Fir	2-yr. Seedlings
6—100 Jack Pine	2-yr. Seedlings
7—50 White Spruce	3-yr. Seedlings
8—75 Austrian Pine	2-yr. Seedlings
9—100 Ponderosa Pine	2-yr. Seedlings
10—50 Concolor Fir	2-yr. Seedlings
11—100 Dwarf Mt. Pine	2-yr. Seedlings
12—100 Flexilis Pine	3-yr. Seedlings

	1-yr., 100	2-yr., 100
Ash Seedlings	\$0.75	\$1.00
Box Elder Seedlings .....	.75	.90
Elm Seedlings .....	.75	.90
Cottonwood Seedlings .....	.50	.75

Iris

Iris (Lily)—This fine class of stately flowering bulbs is rapidly growing in popularity. The blossoms are of rich and varied colors, quaint forms and delicate fragrance. Every third or fourth year they should be taken up and reset.

Dwarf Border Iris—Very flowering dwarf foliage, profuse bloomer, lavender blossoms. **2 for 5c; \$2.00 per 100.**

German Iris—This is the genuine **Fleur de Lis**, the national flower of France; broad, graceful petals, of exquisite shades are borne well above dark green foliage on erect stocks. **Price, 10c each; \$1.00 dozen.**

Japan Iris—Distinct from all others. Flowers are often 10 inches across; a marvelous blending of rich rose shades, very hardy and easy of culture. **Price, 10c each; \$1.00 dozen.**



Evergreens That Live Are Taken Up With Ball of Earth.



Insecticides and Fungicides

The control of insects and fungi is imperative in every garden. Plants must be protected from their enemies, if they are to produce most luxuriantly in flower and fruit. There are three kinds of these enemies—fungous diseases or blights, insects which eat the foliage, and insects which suck the sap of the plants. The following kinds of materials are the very best on the market for controlling plant enemies, and by their judicious use, your plants will be protected from the destructive bugs and blights.

Slug Shot, Hammond's—Guaranteed to destroy potato bugs and those on tomato and egg plants, currant worms, cabbage lice and worms. Price, 1 pound 15c, 5 pounds 50c, 25 to 50 pounds at 6c per pound. **Slug Shot Duster**, each 35c.

Hellebore Powdered White—Less poisonous than Paris Green and safer to use when fruit is nearly ripe. Per pound, 25c; by mail, 40c; 5 pounds, \$1.00; 10 pounds, \$1.80.

Tobacco Dust—For dusting plants affected with aphids; also used on squash vines and melons, and now largely used for fumigating. 1 pound 10c, 5 pounds 25c, 25 pounds \$1.00, 100 pounds \$3.00.

Fish Oil Soap—An excellent wash for trees and plants, where insects and eggs affect the bark; also used for smearing on trees to prevent worms crawling up. Per pound 15c, 2 pounds 25c, 5 pounds 50c.

Best Quality Paris Green—We handle Paris Green in season. Our stock comes from the largest and most reliable manufacturers in the country. We can furnish you best quality and can save you money. Put up in $\frac{1}{4}$, $\frac{1}{2}$, 1 and 5-pound cans.

Dry Bordeaux Mixture—Preventative of blight on potatoes, tomatoes, celery, etc. For fungus diseases, rust, moulds, leaf-spot, leaf-blight, mildew, black knot, rot; also the best remedy for flea beetles. Bordeaux Mixture is a **preventative and not a cure**, therefore should be **applied early**. Rust and spot fungi live within the plant, and so can not be destroyed after once they gain an entrance. 1-pound carton, 25c; postpaid, 40c.



Pat. Mar. 16 & Nov. 9, 1897

Bug Death

A fine non-poisonous powder and in composition is peculiar to itself, inasmuch as it does not depend upon arsenic for its killing power. **Bug Death** is not a new and untried preparation. It has been on the market fourteen years, and its sales have shown a large increase each year. **Bug Death** is safe and sure to use on potatoes, tomatoes, currants, gooseberries, cucumbers, melons, egg plants, and garden truck generally. (Full directions on each package.) Practical tests have always shown that the increased yield more than paid the entire expense. **Bug Death** prevents blight, increases yield and improves quality. It can be used dry or in a spray. Apply at the rate of about 12 pounds per acre. Prices, 1-pound package, 15c; 3-pound package, 35c; 5-pound package, 50c; 12½-pound package, \$1.00.

Dickey Duster—A very convenient and practical implement for applying Bug Death and other powders to plants. Price, each 25c.

Fertilizers

For the intensive cultivation of plants in the home garden and grounds, fertilizers play a very important part. Frequently the soil which forms the lawn, flower beds or garden has been removed from the basement excavation. It is practically sterile in its productiveness. It is useless for plant growth, except through the application of fertilizers. But, even in well tilled soils, where plants have long been growing, an occasional application of fertilizer stimulates the plants and makes them respond with more luxuriant flowers and fruits. The following fertilizers represent the best for the home gardener and the judicious use of one or more of them will enable you to have a better and more productive garden.

WRITE FOR SPECIAL PRICES IN QUANTITY

Sheep Manure, Pulverized (Wizard Brand)—A pure natural manure, unequalled for mixing with potting soil or lawns, general vegetable and flower garden fertilizer. It makes the richest, safest and quickest liquid manure. For use in liquid form, one pound to five gallons of water will make a liquid which can be used with safety daily. An application of 100 lbs. to 1,000 square feet of lawn, gives a rich, green effect all summer. Price, 6 pounds 25c, 25 pounds 75c, 100 pounds \$2.25.

Bone Flour (Steamed and Ground Bone)—Ground very fine; unexcelled for pot plants or beds where an immediate effect is wanted. Price, 5 pounds 25c, 25 pounds 90c, 100 pounds \$2.75; delivered in city, \$3.00.

Nitrate of Soda or Chili Saltpetre—Nitrate of Soda is not a substitute for other manures, but recommended as the cheapest and best form in which to apply nitrogen to plants. As a liquid use Nitrate of Soda at rate of one ounce to two gallons of water. Price, 3 pounds 25c, 15 pounds \$1.00, 100 pounds \$6.00.

Kainit (German Potash Salt)—Most useful for making "Commercial" fertilizers, or can be used alone. If used on lawns it should be spread during winter. Price on application.

Ashes (Canadian Unleached Hardwood)—Indispensable as a lawn dressing, or to apply to orchards. They should be applied late in the fall or early in spring, so that the rains and snows may leach the ashes and carry the elements down to the roots of grass or trees. Apply about 1,000 pounds to the acre. Price, per 100 pounds, \$2.00.

Poultry Supplies

Our Poultry Foods Are All Food—No Waste, Always the Same.

Starter—For baby chicks two days to two weeks.

Eureka—For chicks two weeks to two months old.

Acme—Scratch food for hens.

Starter

(For the Little Fellows.)

Is a complete and properly balanced food for **small chicks** two days to two weeks old, adapted to their delicate digestive organs. It has a high percentage of protein, contains but

a small proportion of fat and heating elements. Keeps the digestive orders or little chicks in good condition. There need be no occasion for losing little chicks if our Chick Starter be used. **Price, 7 pounds, 25c; 50 pounds, \$1.40; 100 pounds, \$2.25.**



feeding and appetizing qualities. **Price, 10 pounds, 25c; 100 pounds, \$2.00; 500 pounds, \$9.00.**

Acme

(Scratch Food)

We claim it to be the best all around scratch food offered to the trade. The cracked grains are all screened, there being no flour left in. In fact, it is all food and no waste. It is properly balanced food and combines great



Eureka

(For Chicks Two Weeks to Two Months Old.)

This is a food intermediate between the **Starter** and the **Acme** Scratching Food. It is coarser than the former but has all the good qualities of the Starter. It is high in protein, muscle and bone-forming elements. **Price, 7 pounds, 25c; 50 pounds, \$1.40; 100 pounds, \$2.25.**

Alfalfa Meal—Alfalfa Meal furnishes the green food that is absolutely necessary for winter egg production, contains protein and phosphate of lime and is the best known substitute for grass and other green stuff. **Price, 8 pounds, 25c; 100 pound bags, \$2.00; 500 pound bags, \$8.00.**

Crushed Oyster Shells—This is one of the most commonly used articles in poultry yards. One of the best shell producers. **Price, 18 pounds, 25c; 100 pounds, 90c.**

Clam Shells—These are fresh water shells. Are not so clean, nor as heavy in lime as the salt water **Oyster Shells**, but have good value. **Price, 100 pounds, 80c.**

Mica Grits—Fowls have no teeth. The work of mastication is done in the gizzard, so that it is very essential that the fowls should have plenty of grit. **Price, per 100 pounds, 90c.**

Charcoal—Most successful poultry raisers feed this soft food. One of the best correctors of bowel troubles and preventives of disease. An excellent blood purifier. **Price, 5 pounds, 25c; 25 pounds, 75c.**

Animal Poultry Foods

Meat Meal is a combination of meat trimmings—lungs, tendons, livers, etc., cooked for five hours in large steel tanks under 25 pounds pressure. **Price, 6 pounds, 25c; per 100 pounds, \$2.00.**

Beef Scraps (Granulated Protein 60 to 65 Per Cent)—100 Pounds \$3.25, 500 pounds, \$15.00.

Bone—Consists of ground beef bone, thoroughly dried and free from grease. It is more economical and better in every way than raw beef bone. Rich in Bone Phosphate and Lime, which is so necessary for making good egg shells and building the frame of the chicken. We carry fine and coarse. **Price, 6 pounds, 25c; per 100 pounds, \$2.75.**

Blood Meal—It will make hens lay during winter months; in fact, will keep them busy all the year around. Makes the plumage bright and glossy and is particularly beneficial during the moulting season. **Price, 6 pounds, 25c; 100 pounds, \$3.50.**

The New Way to Spray

THE STANDARD SPRAY PUMP

As used with bucket, knapsack, tank or barrel for spraying orchards, gardens, vineyards, whitewashing, disinfecting chicken houses, killing vermin on stock. It throws a spray 25 feet; throws a solid stream 50 or 60 feet high. With two solid brass valves. No leather washers or sockets. No castings to rust. No leaky joints. Nothing to get out of order.

Price, \$4.00 Each

Warranted to Purchaser for Five Years.

The Queen Inubato

BEST MADE IN AMERICA

The **Queen Incubator** has been constructed after many years of experimenting and follows as closely as possible the dictates of Nature. We have handled many makes of incubators, but **The Queen** gives the best satisfaction of any we have ever sold. Illustrated catalog, giving price of **The Queen**, free on application. 70-egg size, \$10.00; 120-egg size, \$14.00; freight paid.

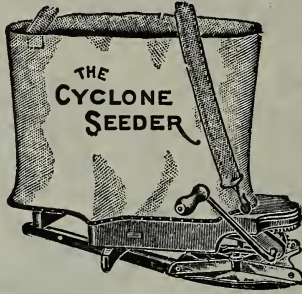
SEE HARDY FERNS, PAGE 15.





Planet Jr. No. 25, Hill & Drill Seeder at work planting and marking next row.

Cyclone Seeders



It is especially designed for distributing evenly all kinds of grain, as well as every variety of grass seed

Price, \$1.25. With Seed Orders, Price \$1.00



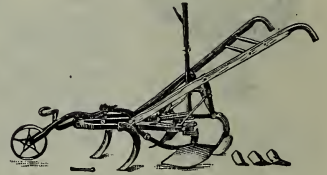
Double Wheel Hoe at Work. Two acres a day can easily be worked with this improved implement.

No. 9, Planet Jr. Horse Hoe

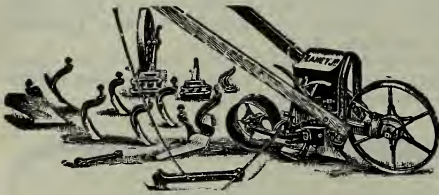
Price \$7 75, Packed Weight, 71 lbs. Without Wheel, \$7.00. Packed Weight, 64 lbs.

This tool has become popular because of its strength, lightness and easy change of width. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. You can cultivate any depth desired, and adjust for any width.

Write for Special Catalog of Planet Junior Planters

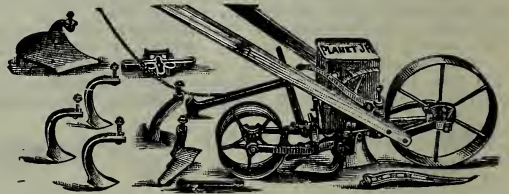


Headquarters Planet Jr. Farm and Garden Implements



No. 25 Planet Jr. Combined Hill and Drill Seeder and Double Wheel Hoe Cultivator and Plow.

Price \$13.50



No. 4 Improved Planet Jr. Combined Hill and Drill Seeder and Wheel Hoe Cultivator and Plow.

Price \$11.00. Drill only \$9.00



**LANG'S
HAND
WEEDER**
HANDIEST
TOOL
ON EARTH.



20c
Each

**Xmas
Trees
and
Wreaths
of
Holly
Makes
for
Cheer
and
all
Things
Jolly**



**Mistle-
toe on
Chande-
lier**

**All the
Girls
Will
Flock
Right
Here**

**Every-
thing
to make
a Tree**

**All it
Really
Ought
to be**

YULETIDE SCENE

Special Catalog of Christmas Trees and Decorations in Season

Magic Lawn Grass

This is a special **Lawn Grass** of our own preparing. It is made up of the best kinds and highest grades of domestic and imported grasses used in lawn work. It comes up **quickly**, and grows like **magic**, giving a continuous green turf the season through. Have your soil well prepared with a surface of black dirt. Sow at the rate of three pounds to **Fifteen Hundred Square Feet**. **Magic Lawn Grass** is our brand and sold only by ourselves at our Seed Store, 316 Pearl Street. **Price, per pound, 35c; 5 pounds for \$1.50.**

Kalaka

THE WIZARD LAWN PRODUCER

is the name given to a new combination of superior lawn grass seeds and pure concentrated dry manure. **Price, 5 lb. boxes, \$1.00 each.**

Purity Brand

KENTUCKY BLUE GRASS SEED

Here is the hardiest, most attractive, velvety green lawn grass known. It represents the best we have been able to discover of our own native American Kentucky Blue Grass, and is as thoroughbred as Kentucky's other famed products of ladies, horses, colonels and corn. For Lawn Seeding and Reseeding purposes, we offer a Special Strain of this Blue Grass Seed—**Our Purity Brand**, representing first selection from the choicest crop and cleaned and re-cleaned to absolute net purity. This seed is extra double weight, sun-dried new seed of highest germinating power. It's a real cure for a sick lawn. **Price, per pound, 25c; per 10 lbs., \$2.40; per 100 lbs., \$20.00.**

Fruit-Grower and Farmer, St. Joseph, Mo.

BULBS
PLANTS
AND
NURSERY
STOCK



The
Michael Seed Store
SIOUX CITY, IOWA



MAGIC LAWN GRASS
THE WIZARD LAWN PRODUCER